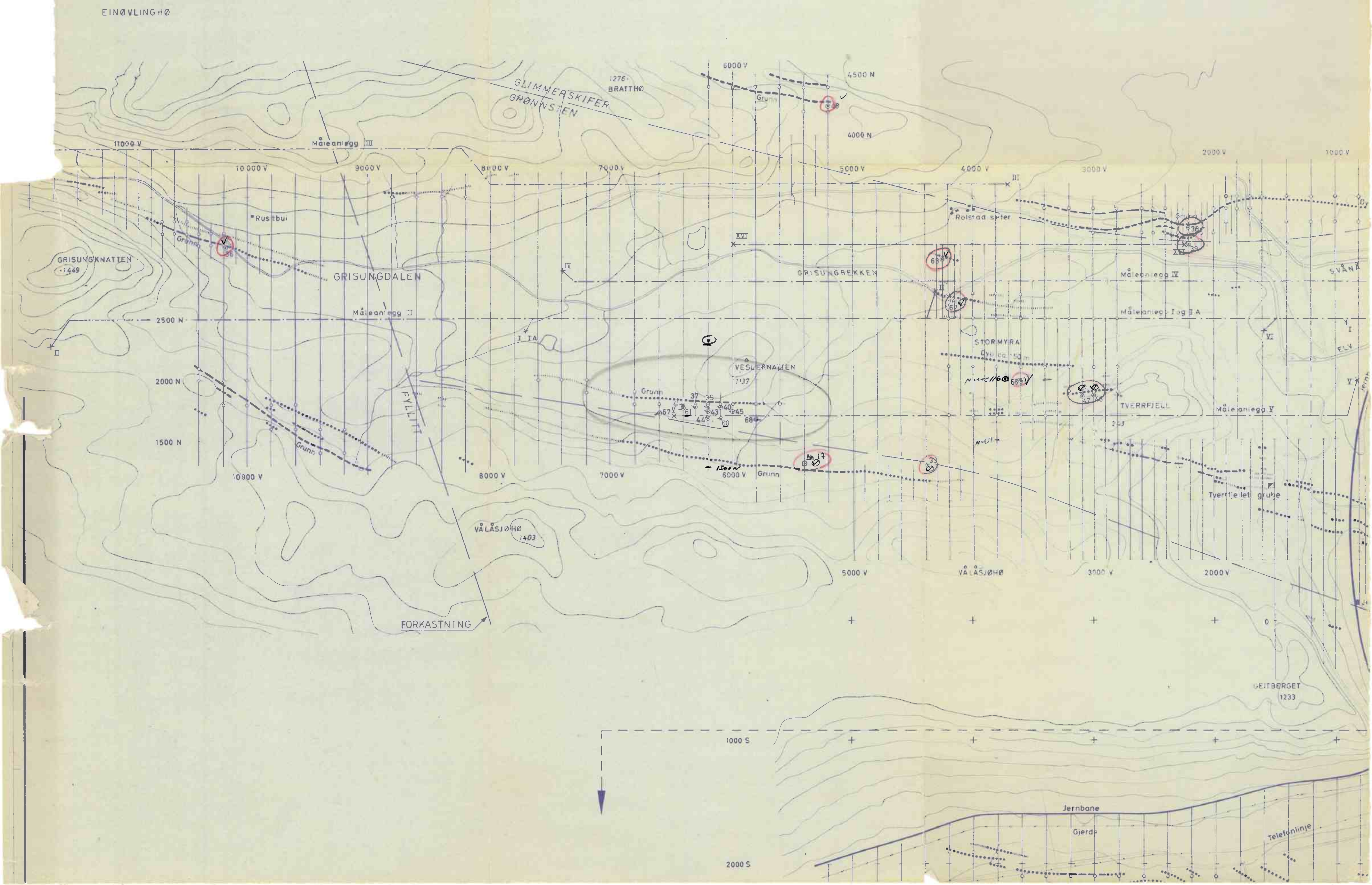
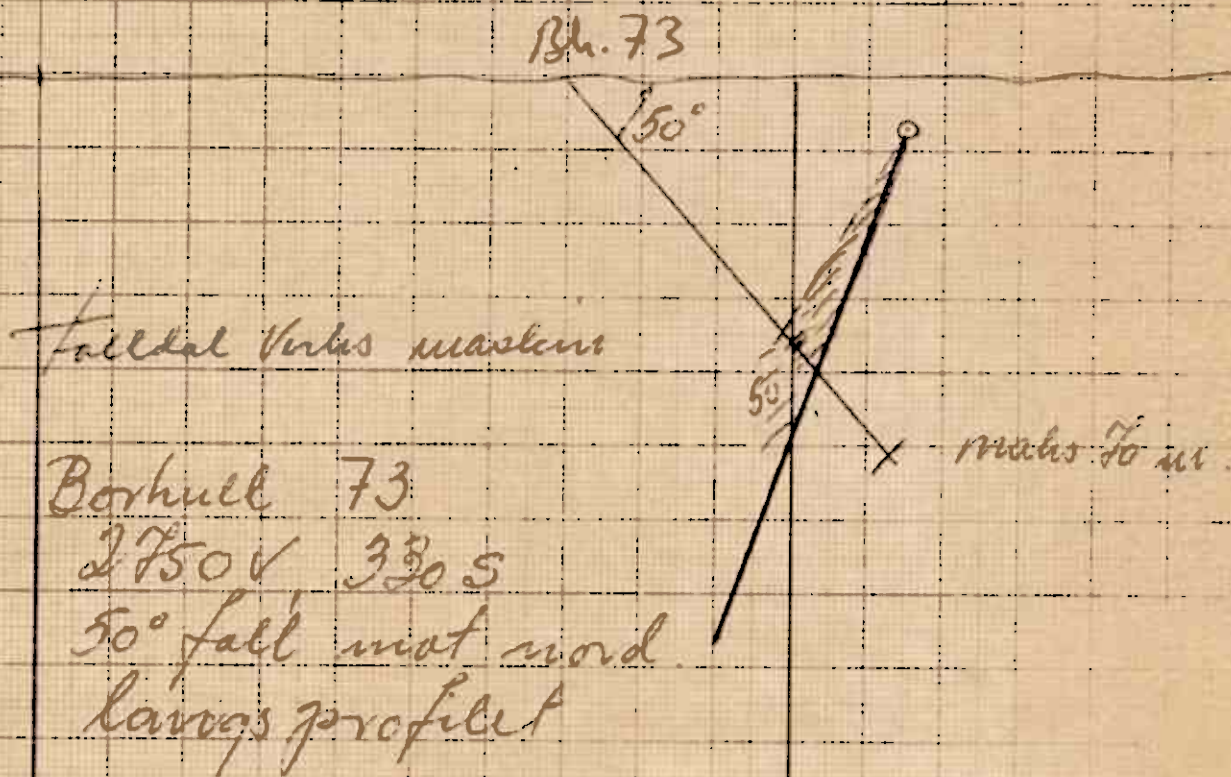


Utsnitt av geoteknisk kart
Tverfjellfeltet
M = 1:20000



Grisingshö: P. 2750V



Magnetisk 42.78 - 43.22 m
Hullet avsluttet ved 66. m
3 m overdekkel

1965

Kundalseter P 4000 ft

Bm. 74



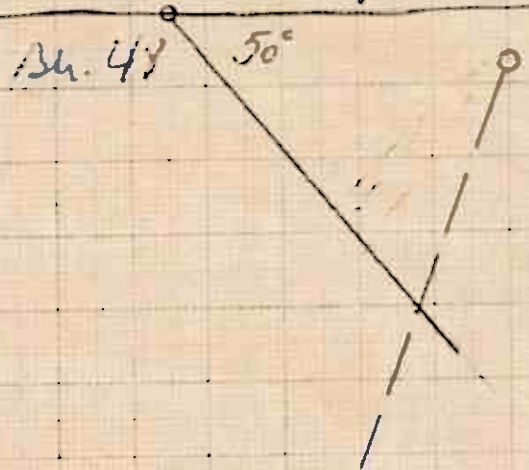
Bornhall 74 Fjeldal Vertis machine
 4000 ft, 450 S
 50° fall med nord
 langs profilet

Forslag til nytt hull ved Kundalseter:
 4000 ft, 490 N 50° N

1965

(Einórlinghó) P 5200 V
Rundhaugen
Ca 1500 m west for Rellstadseter

Falldal Verkhusmarken



Hullet avsluttet med 45-m
Gravitt of kverner 30-40 m

30/9.05

Borhull 48
5200 V, 4245 N

4200 N

4300 N

4400 N

1965

Tverrfjellet P 3000 V

Falldal Verkes maslunn

2 Bl. 46
teptet

BH 46

3000 V, 1570 N

50° fall mot nord.

1800 N

1900 N

2000 N

1965

Tuerrfjellit P 3100V

Fjeldal vertes maskin

3h. 47

BH 47
3100V 1860N
50° fall mot N

spor av kis
muljens grafittskifer

1900N

1900N

1900N

Veslekatten P 6000 V

1905

Frederik Vertus maskin

BH $\approx$ 45

6000 V, 1735 N

$\rightarrow$ 60° fall mot nord

Impor. 75.60 - 93. - ...

Bh. 45

60°

Impor

75.60 - 93. - ...

1600 N

1700 N

1500 N

Vesleknaatten P 6200V

1:1000

196

Faldal Verlos masene

Bh 44

BH 43

Faldal Verlos masene

Bh. 43

6200V, 1725 N 50° N

Bh. 44

6200V, 1690 N 60° N

(BH 6)

(BH 5)

(BH 1)

Pravusit

Pravusit

mager

1600 N

1700 N

1800 N

Hierkenholen

F. Koo &

1965

Fälldal virkes maskin med
bore från Horsk Berg.

NB

BH 72

50°

BH 72

16004, 2970 S

50° fall mot nord.

profittslipen
här ingår magnetit

65m

6470 Totalt = 525 ore.

59 - 60 m lott ut för analys

100 S

3000 S

2900 S

Bh. 66
F. Skoov
Stormyra

BH Skoov
1975 N 50° N

Boret av Nørsh Berge
med maskin 2
1^{ste} Borbas Vilen
1. hull med denne maskin

1965

Nørsh Berge Hull 1 maskin 2.

Boret maskin 18/8 65

Forhullet avsluttet ca 16/9. 65
med 250 meter

Vishennatten

P 6600 V

1965

Br 67 Norsk Buzo. Maslin 2. Hull 2

60°

50

100

150

makes 170 m

Borkhull 67

6600 V, 1725 N

60° fall mot nord.

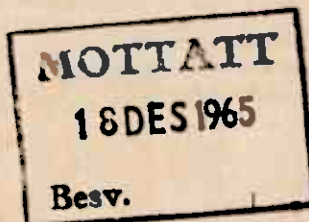
1700 N

1800 N

VESLEKNATTEN

NORGES GEOLOGISKE UNDERSØKELSE

Folldal Verk A/S
FOLLDAL VERK.



LEIV EIRIKSSONS VEI 39
POSTBOKS 3006
TELEFON 20166

DERES REF.:

DERES BREV:

VÅR REF.:

TRONDHEIM,

Jnr. 4185/65Gf 17. desember 1965
PS/CS

Diamantboringene 1965.

Etter avtale med ing. Lile oversendes vedlagt profiler som viser beliggenheten av de borhull jeg har hatt befatning med siste sommer.

Dersom det skulle være behov for ytterligere orientering vedrørende boringene, står jeg gjerne til tjeneste.

Med hilsen

Per Singsaas
Per Singsaas

Bilag.

1965

Hjerskavlen P. 1800 f

M 1:1000

BH 56 BH 55
BH 51 BH 50 Norsli Bergu maskin 1.

56° 50°

Borhall 55
1800 f, 3220 N 50° N

Borhall 56
1800 f, 3190 N 56° N

BH 55
10 m. overdekket
Bort 74.20 i fast fjell
Matin 60.30 - 61.05 m
62.65 - 63.15 m

Borene fra Norsli Bergu.
ankom 23-24/6. 68.
Den første maskin.

BH 56
BH 51
Bort 1.5 m overdekket
113.60 i fast fjell

95.95 - 96.08 magnetitt
96.16 - 96.20 komposit magnetitt
96.25 - 96.85 impr. uesentlig
96.97 - 97.02 komposit magnetitt

3100 N

3200 N

3300 N

1965

Knuttdalen P 62004

Bu 58

BH 58 Mossa Bergs maskin t.

50°

58
BH 58: 62004, 905

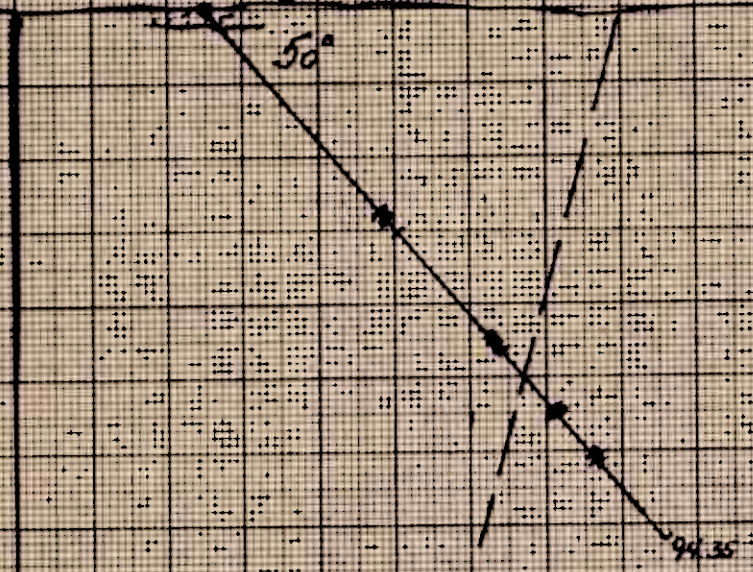
Boret i Singsås' serie 25 juli - 8 aug.

99.50

1965

Kvitdalen P 6400 f.

Bh. 57
BH 52 Noisk Bergv. maslenn 1



Bh. 37
BH 52 6400 f 753
50° N

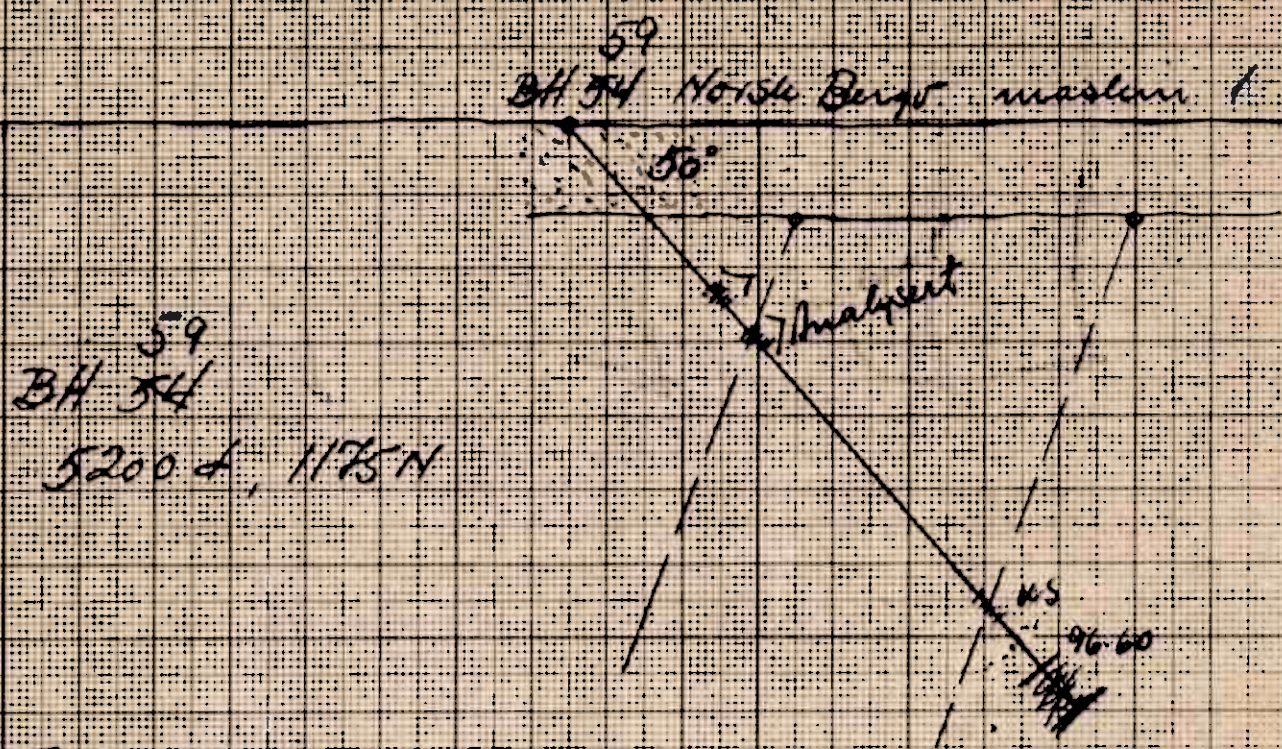
Impregnationer av
magntis og svovelkis felling

100 S

0

100 N

Kuitdalen P 5200 f



En rekkje soner
inngår, og kanskje
st. k. is
magn. k. is
sma. m. t. g. k. is

1965

Rollstadseter P 4250 V

63
BH 58 Nørste Berge maslun 1

50°

63
BH 58

Nørste Berge 1

4250 V, 2970 N
50° N.

52.60 Totalt: 2.0 m med.

2900 N

3000 N

3100 N

1965

Kollstadseter P 4/150V

BH ⁶² ~~57~~ Norsh Berg. maslin 1

BH ⁶² ~~57~~
4/150V 2650N
Norsh Berg.

50° fall mot N

55 m + last full

~~27-29~~ overdekket
27-29 - ~~Kjennetop~~ fast fjell kjennetop
Omkring 29.50 - fast fjell som
nå er som tryk med
nå er fast

2600N

2700N

1965

Vesleknatten P. 6100 V

1965 BH 58 ⁶⁰ Norsk Bergv. maskin 1

1965 BH 46 FV

BH ⁶⁰ 58

6100 V, 1675 N

56° fall mot nord

Imp. 157.50 - 165.-

— " — 170. — 173.30

50°

Analysert

50°

Imp. 170. — 173.30

Imp. 170. — 173.30

180.00

Paralittet 99.45

1800 N

1600 N

1700 N

1600 N

Vesleknatten 7.6400V

1965

BH. 56⁶¹

Norsk Brev.

BH 6400V, 1770N

56° fall mot nord.

Norsk Brev.

67.60 - 67.65	myr	so kis
68.55 - 68.75	---	---
69.60	stupa	so kis
69.80 - 70 -	myr	so kis
70.70 - 70.75	---	"
70.90 - 71.20	---	"
71.35 - 71.55	---	"
73.30	sean myr	
74.95 - 75.05	myr	so kis
81.80 - 82.05	---	" " litt Cu

1965 BH. 56 Norsk Brev. maskin 1

56° 50'

BH. 41 7V

kis 62.35 - 62.45

97.50 97.40

Ansatt 14/9 65

1600N

1700N

1800N

Kvitdalen P 10000 f.

1465

Norse Berg masthead

50°

65

Borhull to Norse Berg.

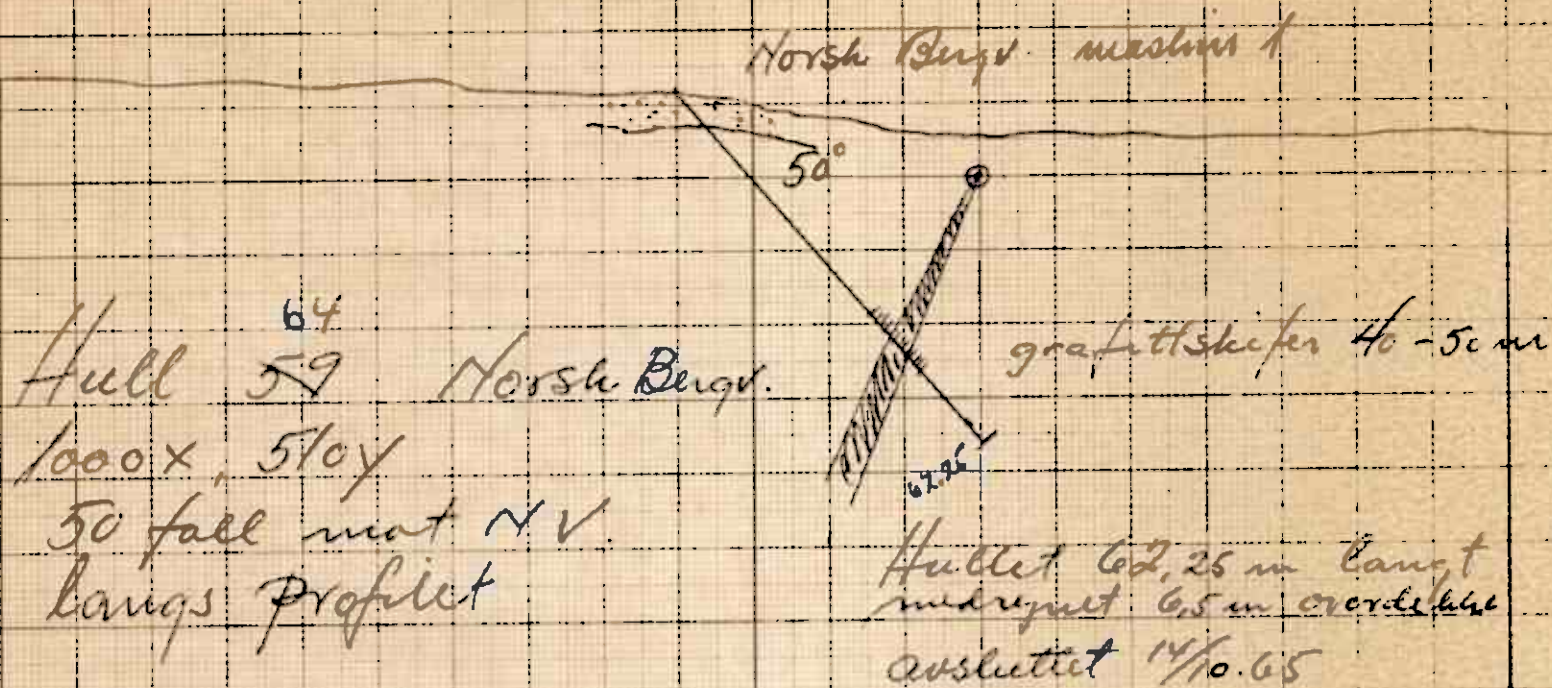
10000 f, 1480 N

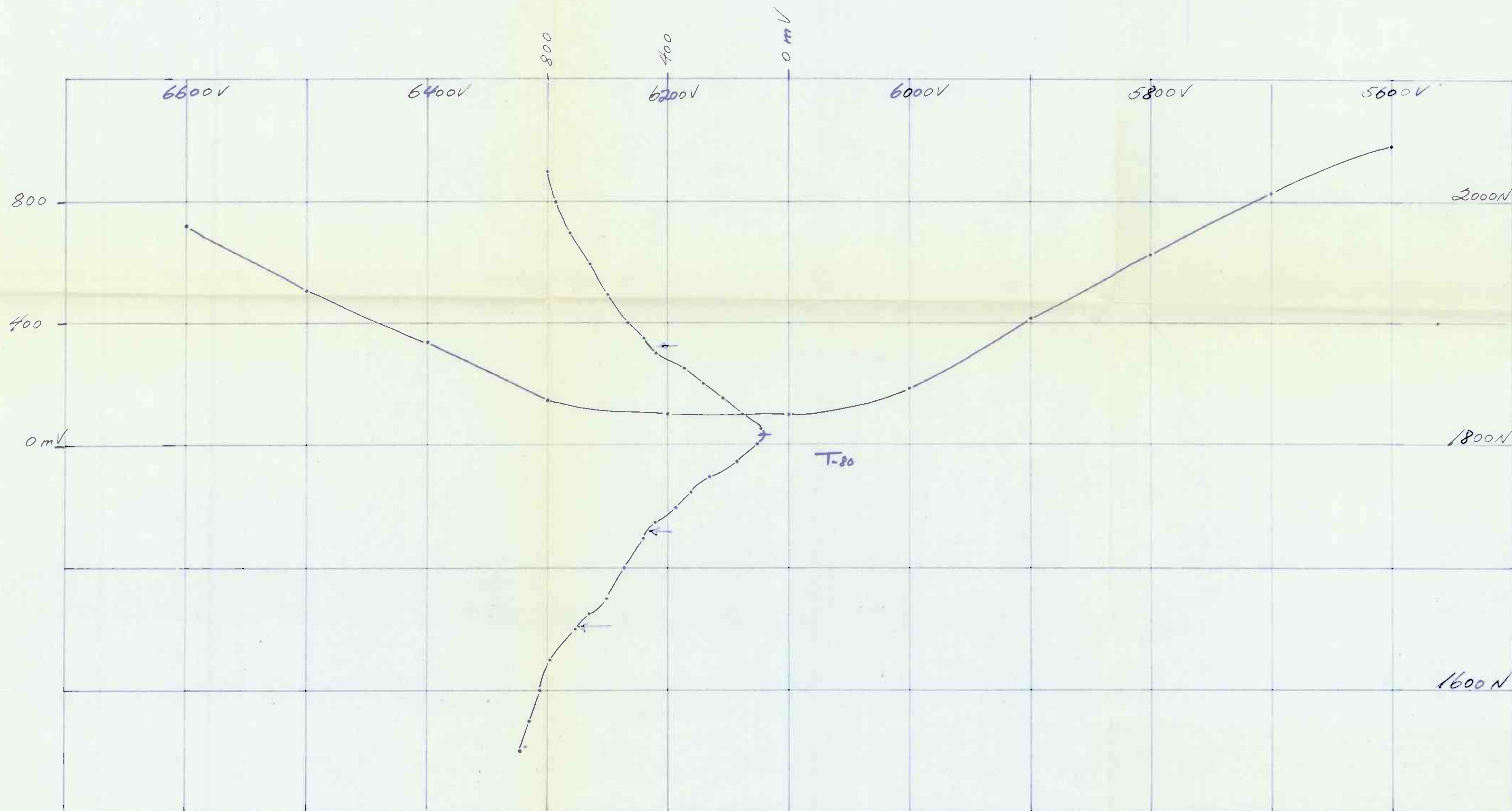
50° fall not used
large profit

20 67.20 Total

1965

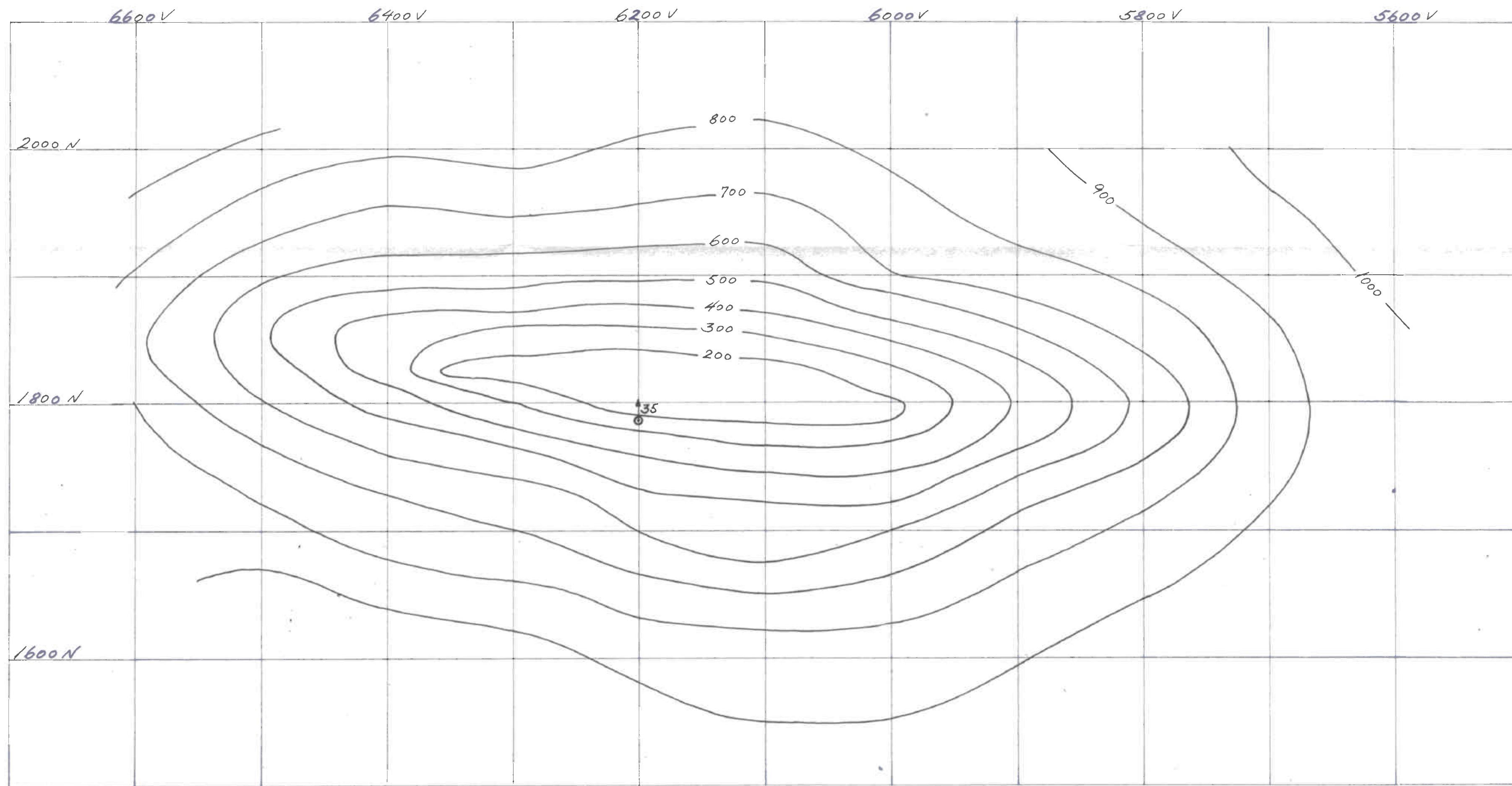
Grisungvatna P 1000 X



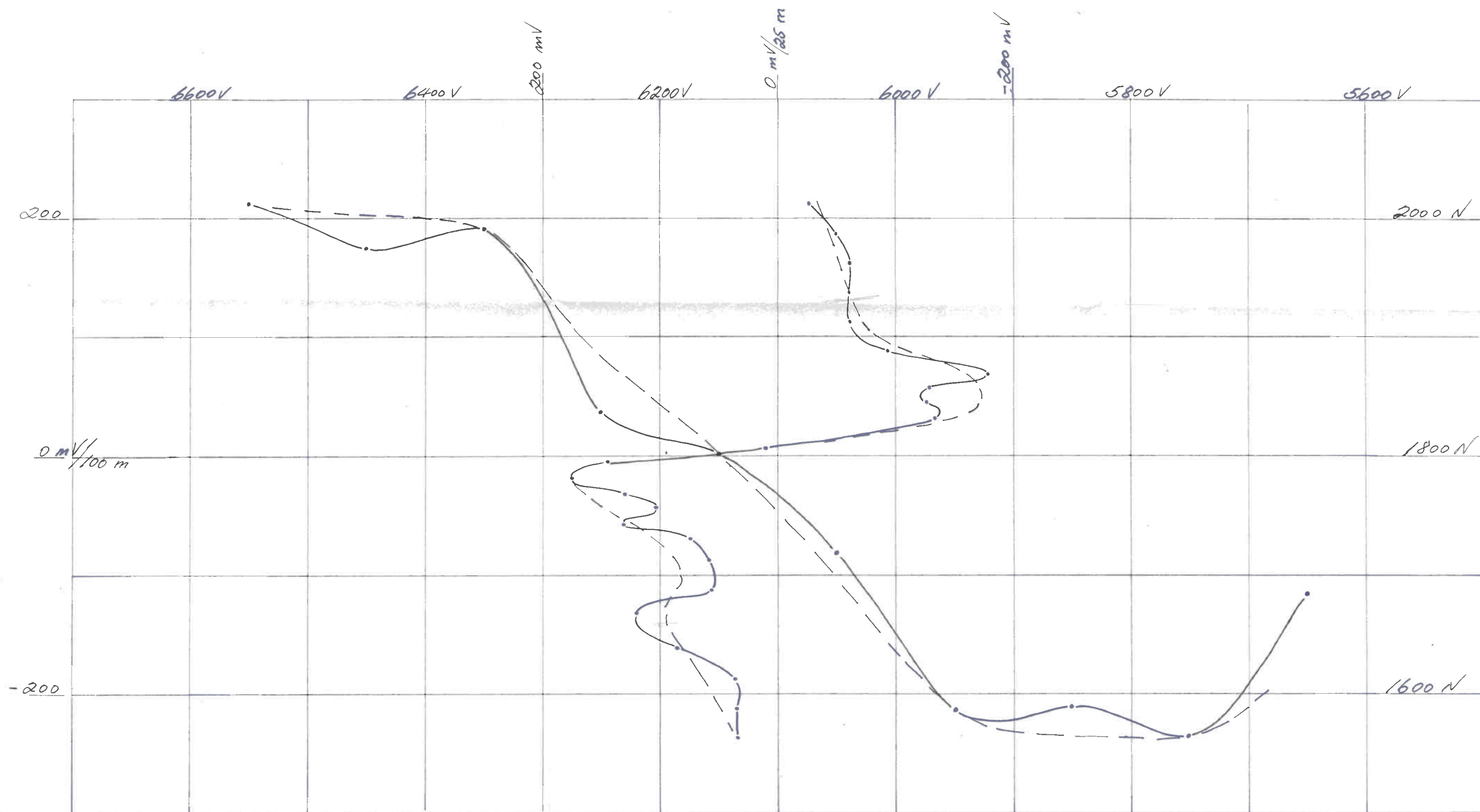


Potensiallinje i minimumslinje og profil

VESLEKNATTEN			
CP-MÅLING 1967			
Date	Kontroll	Godkjent	Prøvested
3.7.76	3.7.76		2600
I = 0.6 A			Erstatning for:
Jording i 3h 36			Erstattes av:
Målt: H. M. Ørebo			
Henvisning:		Beregning:	



VESLEKNATTEN			
CP - MÅLING 1967			
Dato	Konstr. Tegner	Fract	Målestokk
	3.76	Y.L.	1/2500
Kontroll	Stand.kontroll	Godkjent	
I = 0.6 A Enhet mV			Erstatning for:
Jording i Bh 35			Erstattet av:
Målt av H.N. Øvreås			
Henvisning:		Beregning:	



— Gradient i minimumslinje og profil
 - - - normalisert gradient

VESLEKNATTEN			
CP-MÅLING 1967			
Dato	Konstr. Tegner	Målestokk	
03.76	Y.H.	1/2500	
Kontroll	Stand.kontroll	Godkjent	
I = 0.6 A			Erstatning for:
Jording: 3h. 36			Erstattet av:
Målt: H.M. Øvreås			
Henvisning:		Beregning:	

DIAMANTBORHULL nr. 40						Begynt dato :		Stoppet dato :										
Lokalitet :																		
(Grove) Koordinater X =						Y =		Z =										
Fall :				Diameter :		mm		Målestokk 1:100										
Avstand dybde m	Geologisk profil			Kjerne		Kjerneprover												
	Farge eller kravering	Bergartsnu- mer event symbol	Fallvin- kel tell.	Anmerknng	Borhulls avvik °	Utvinnng %	Provenumer	Lengde m	Analyseresultater									
									Cu %	Zn %	S %	%	%	%				
				Grønnstein - - grønskifer														
30		FeS ₂		Kvartsitt														
		FeS ₂		Impr. sv. kis				0,30	-	-	18,7							
		FeS ₂		Kvartsitt														
				Grønnstein, klorittisk														
				Svovelkis				0,6	0,47	6,10	40,5							
				Glimmer - - skifer														
40		FeS ₂		svak impr.														

DIAMANTBORHULL nr. 40						Begynt dato :		Stoppet dato:										
Lokalitet :																		
(Gruve)Koordinater X =				Y =		Z =												
Fall :				Diameter :		mm		Målestokk 1:100										
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver												
	Farge eller skravering	Bergart nummer event symbol	Fallvin- kel foli.	Anmerkning	Borhulls avvik	Utvinning	Provenumer	Lengde	Analyseresultater									
									%	%	%	%	%	%				
41.07				Grønnstein m/glimmer														
50																		

DIAMANTBORHULL nr. 41						Begynt dato :										
						Stoppet dato:		8.65								
Lokalitet : <i>Vesleknatten</i>																
(Gruve) Koordinater <i>X = 6400 V Y = 1788 N Z =</i>																
Fall : <i>50</i>				Diameter : <i>36 mm</i>		Målestokk 1:100										
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver									
	Farge eller skraveling	Bergartsnu- mer event symbol	Fallvin- kel tell.	Anmerkning	Borhulls avvik	Utvinning	Provennummer	Lengde	Analyseresultater							
									%	%	%	%	%	%		
m					%	%										
				<i>Fyllitt-skifer m / granater</i>												
				<i>Fyllitt-skifer</i>												
				<i>Kvarts-sericitt- -skifer m / granater</i>												

DIAMANTBORHULL nr. 41						Begynt dato :												
						Stoppet dato:												
Lokalitet :																		
(Grube)Koordinater X = Y = Z =																		
Fall :				Diameter :		mm		Målestokk 1:100										
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver												
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foll.	Anmerkning	Borhulls avvik	Utvinning	Provenumer	Lengde	Analyseresultater									
									%	%	%	%	%	%				
m																		
30				Grønn fylttskifer m/ granater														
40				Grønnstein														

DIAMANTBORHULL nr. 41						Begynt dato :													
						Stoppet dato:													
Lokalitet :																			
(Grube)Koordinater X =						Y =		Z =											
Fall :						Diameter : mm		Målestokk 1:100											
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver													
	Farge eller skravering	Bergarten- mer event symbol	Fallvin- kel f.lli.	Anmerkning	Borhulls avvik	Utvinning	Prøvenummer	Lengde	Analyseresultater										
									%	%	%	%	%	%					
3																			
				Kvarts-sericitt skifer															
		FeS ₂		Finkornet kvarts-sericitt- skifer															
				Grønnskifer															
		FeS ₂		~~Kvarts~~															
50				Grønnskifer m/ glimmer															
		FeS ₂		Kvartsitt															
				Amfibolitt															
60																			

DIAMANTBORHULL nr. 41

Regnet dato :

Støttet dato :

Lokalitet :

(Grove) Koordinater X =

Y =

Z =

Fall :

Diameter : mm

Målestokk 1:100

Avstand Dybde		Geologisk profil				Kjerne		Kjerneprover						
m	Farge eller kraveling	Bergartsnu- mer event symbol	Fallvinn- o kel tell.	Anmerking	Borhulls avvik o	Fellingning %	Provennummer	Lengde	Analyseresultater					
									%	%	%	%	%	%
				Amfibolitt										
		FeS		<u>Magnetisk</u>										
				<u>Kvartsitt</u>										
70				Grønnskifer										
79.65				Grønnskifer, grovkornet										
80														

DIAMANTBORHULL nr. 43

Begynt dato :

Stopper dato: 8.65

Lokalitet : Vesleknatten

(Grove) koordinater $X = 6200 \vee X = 1725 \vee Z =$

Fall : 50 °

Diameter : 36 mm

Målestok 1:100

Avstand Dybde		Geologisk profil			Kjerne		Kjerneprover							
m	Farge eller skravering	Bergartsna- mer event- symbol	Fallvinkel °	Anmerking	Borhulls dybde °	Tilvinnings %	Provenient	Lengde	Analyseresultater					
									%	%	%	%	%	%
10				Kvartsittisk, sericittisk skifer, delvis fyllettisk m/glimmer										

DIAMANTBORHULL nr. 43

Begynt dato:

Sluttet dato:

Lokalitet:

(Grove) koordinater X =

Y =

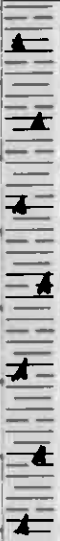
Z =

Fall:

Diameter:

mm

Målestokk 1:100

Avstand Dybde		Geologisk profil			Kjerne		Kjerneprøver							
m	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel 1-11.	Anmerking	Borhulls avvik	Utvinning	Provennummer	Lengde	Analyseresultater					
									%	%	%	%	%	%
				Fyllittskifer										
50				<u>Kvarts</u>										
				Kvarts-sericittskifer m/ granater										
60				Kvarts-sericitt- skifer										

DIAMANTBORHULL nr. 43

Begynt dato :

Stoppet dato:

Lokalitet :

(Gruve) Koordinater X =

Y =

Z =

Fall :

Diameter :

mm

Målestokk 1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver												
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel tell.	Anmerkning	Borhulls avvik	Utvinning	Provenumr	Lengde	Analyseresultater										
					°	%			%	%	%	%	%	%	%	%			
3																			

DIAMANTBORHULL nr.						Begynt dato :											
						Stoppet dato:											
Lokalitet :																	
(Grove)Koordinater X =				Y =		Z =											
Fall :				Diameter : mm		Målestokk 1:100											
Avstand Dybde m	Geologisk profil			Kjerne		Kjerneprøver											
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foll.	Anmerkn ing	Borhulls avvik °	Jivinning %	Provenummer	Lengde m	Analyseresultater								
									Ca %	Zn %	S %	%	%	%			
	FeS			Tett, grønn fylt													
	FeS ₂																
	FeS ₂																
90	FeS ₂			Grønnskifer - amfibolittskifer													
	FeS ₂																
	FeS ₂			<u>Kvartsitt</u> <u>Amfibolittskifer</u> <u>Grønnskifer</u>													
				Srovelkis													
				Amfibolitt- skifer													
100																	

DIAMANTBORHULL nr. 43										Begynt dato :				
										Stoppet dato:				
Lokalitet :														
(Grøve)Koordinater X = Y = Z =														
Fall : ° ' "					Diameter : mm		Målestokk 1:100							
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skrapering	Bergartsnu- mer event symbol	Fallvin- kel tell.	Anmerkning	Borhulls avvik °	Utvinnning %	Provenumner	Lengde	Analyseresultater					
									%	%	%	%	%	%
3														
110				Amfibolitt - skifer										
121/69 A														

DIAMANTBORHULL nr. 44						Begynt dato :		Stoppet dato: 9.65											
Lokalitet : Vesleknatten																			
(Gruve)Koordinater X = 6200 V Y = 1690 N Z =																			
Fall : 60 ° ' "				Diameter : 36 mm		Målestokk 1:100													
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver												
	Farge eller skrapering	Bergartsnu- mer event symbol	Fallvin- kel foll.	Anmerkning	Borhulls avvik °	Utvinning %	Provenumer	Lengde	Analyseresultater										
									%	%	%	%	%	%					
3																			
10				Grønn flybitt-skifer m/ granater															
20				Kvartsittisk, sericittisk flybittskifer m/ granater															

DIAMANTBORHULL nr. 44						Begynt dato :		Stoppet dato:										
Lokalitet :																		
(Grube)Koordinater X = Y = Z =																		
Fall :				Diameter : mm		Målestokk 1:100												
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver											
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foll.	Anmerkning	Borhulls avvik	Jtvinning	Provenumer	Lengde	Analyseresultater									
									%	%	%	%	%	%				
30				Kvartsittisk fyllitt- skifer														
40				Kvartsittisk fyllittiskifer m/granater														
				Kvartsittisk, sericitisk fyllittiskifer m/granater														

DIAMANTBORHULL nr. 44

Begynt dato :

Stoppet dato :

Lokalitet :

(Grube) Koordinater X =

Y =

Z =

Fall :

Diameter :

mm

Målestokk 1:100

Geologisk profil				Kjerne		Kjerneprover													
Avstand Dybde	Farge eller skrapering	Bergartsmu- ner event- symbol	Fallvin- kel tell.	Anmerking	Borhulls avvik	Fyllvinnig	Provennummer	Lengde	Analyseresultater										
					°	%			%	%	%	%	%	%	%	%			
3																			
50																			

DIAMANTBORHULL nr. 44						Begynt dato :									
						Sluttet dato :									
Lokalitet :															
(Grove) koordinater X = Y = Z =															
Fall : ° ' "				Diameter : mm		Målestokk 1:100									
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver								
	Farge eller skrapering	Bergartssym- bol event symbol	Fyllvinn- ing	Anmerking	Borhulls avvik °	Fyllvinn- ing %	Provennummer	Lengde	Analyseresultater						
									%	%	%	%	%	%	
m															
70				Kvartsittisk fyllittskifer m/ granat											
80															

DIAMANTBORHULL nr. 44						Begynt dato :		Stoppet dato:											
Lokalitet :																			
(Gruve)Koordinater X =						Y =		Z =											
Fall :						Diameter : mm		Målestokk 1:100											
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver													
	Farge eller kravering	Bergartsnu- mer event symbol	Fallvin- kel f.lli.	Anmerkning	Borhulls avvik	Utvinning	Provenumer	Lengde	Analyseresultater										
									%	%	%	%	%	%					
m																			
90				Kvartseittisk fylttskifer m/ granater															
100																			

DIAMANTBORHULL nr. 44

Begynt dato:

Stoppet dato:

Lokalitet:

(Grave)Koordinater X =

Y =

Z =

Fall:

Diameter:

mm

Målestokk

1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skravering	Bergartsmo- ner event symbol	Fallvink- el tell	Anmerking	Borhull dybde	Kjerner lengde	Prøvediameter	Lengde	Analyseresultater					
									%	%	%	%	%	%
110				Krattsittisk fyltittskifer m/ granat										
120														

DIAMANTBORHULL nr. 44

Begynt dato :

Stoppet dato:

Lokalitet :

(Grave)Koordinater X =

Y =

Z =

Fall :

Diameter :

mm

Målestokk

1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skriving	Bergartsnu- mer event symbol	Fyllvinn- ket fyll.	Anmerking	Borhulls avvik	Fyllvinn	Provennummer	Lengde	Analyseresultater					
									%	%	%	%	%	%
≡			•		°	%								
130				Kvartvitisk fyll. Hskifer m/ granater										
140				Grønnlig fyllitt										

DIAMANTBORHULL nr. 44

Begynt dato :

Stoppet dato :

Lokalitet :

(Grove) Koordinater X = Y = Z =

Fall :

Diameter : mm

Målestokk 1:100

Geologisk profil				Kjerne		Kjerneprover								
Avstand Dybde	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel fall.	Anmerking	Borhulls tyvte	Tverning	Provenier	Lengde	Analyseresultater					
m					%	%			Ca	Zn	S			
									%	%	%	%	%	%
				Grønnlig fyltitt										
150				Grønshifer m/svak imp. FeS ₂				148.0 -163.0	0	0	4.1			
160														

DIAMANTBORHULL nr. 44

Begynt dato:

Stoppet dato:

Lokalitet:

(Grube)Koordinater X =

Y =

Z =

Fall:

Diameter:

mm

Målestokk 1:100

Avstand Dybde		Geologisk profil				Kjerne		Kjerneprover						
m	Farge eller skraveling	Bergartsnu- mer event symbol	Fallvinn- kel tott.	Anmerkning	Borhull s avvik	Utvinnings	Provennummer	Lengde	Analyseresultater					
									%	%	%	%	%	%
		FeS ₂												
170				Grønnskifer										
171.89				Grønnstein										
180														

VESLEKNATTEN

0,00 - 13,30

The rock, which is created by quartz, some feldspar by not much dolomitic and carbonatic irregular schliers, pellets, but intercalations too by the other, byt chlorite, sericite little bit. The other minerales like amphibole creat some acicular or rodlike crystales (max. 1 cm long), garnet creat small grains (but max. 0,5 mm in average big too). The structure is phacoidal schistose mostly. This type of rock commemorate some complex of keratophyre and metha-quartzite. The total colour of this rock is white-gray or white green-gray. In this rock are present some positions or intercalations (max. 10 cm thickness irregular) which are created by medium grained and little bit coarse-grained amphibolitic greenstone with the rodlike or acicular crystales of hornblende, with not much grains of garnet, with quartz with calcatic silicates and with some weak intercalations of quartz and quartz with some feldspar and with some weak intercalations of carbonates too. The both types of these rocks have at some mineralisation of sulphides. The average gradient of foliation is 50° round.

13,30 - 15,10

The sericitic and chloritic micaschist with parallel intercalations of quartz which has a lot of weak irregular inclusions - pellets, schliers of carbonates. Some biotites micas are present too. Magnetite creat small grains, but not so much, very few only. The parallel schistose structure is very clear. The total colour of this rock is very bright green-gray. The average gradient of a foliation is 35° round. The some mineralisation of sulphides isn't present.

15,10 - 20,10

The sericitic and chloritic greenschist with a lot of micas of biotite (some transversal too). Quartz some calcitic silicates are present too. The mineralisation of some sulphides is very, very scarce only, but on some places the very small grains of Fe_3O_4 are present, but very scarce only too. The schistose structure is also clear in this rock. The total colour of this rock is bright green-gray. The some veins or intercalations of white quartz with small thickness mostly (1-2 cm, but 5-10 cm max. too) are present on some places. In example in 16,20 m (10 cm), in 18,55 m (5 cm), in 19,20 m (10 cm + commemorate more keratophyre rock). The average gradient of foliation is 35° round.

20,10 - 44,60

The sericitic and chloritic greenschist with a lot of micas of biotite (transversal too), with some small, mostly irregular grains of magnetite (1-1,5 mm in average). The mineralisation of some sulphides isn't present or is very scarce only. This rock is well as in 15,10 - 20,10 m but has

more Fe_3O_4 grains and has a lot of big grains of garnet (pink or bright-pink colour). The total colour of this rock is bright green gray. In some places the veins or parallel intercalations of white quartz are present, in example in 29,50 m (10 cm), in 30,40 m (7 cm) and in 30,70 m (7 cm). This quartz has some small irregular inclusions of basement rock, some grains of garnet and weak schliers or pellets of carbonates. The average gradient of foliation is 40° - 45° round.

44,60 - 86,20

The sericitic and chloritic greenschist or micaschist as well as in 20,10 - 44,60 m, but with more grains of garnet and with more big this one in average (3-5 mm in average max. too). The grains of magnetite are present little bit fewer. But in this rock's complex the some weak intercalations of keratophyre and keratophyric luphite are present mostly between 50-60 m, exactly in 54,20 - 54,70 m (luphite of keratophyre - sericitic, chloritic sericitic, chloritic micaschist with some biotitic weak parallel intercalations) in 54,40 (5 cm), keratophyre, in 57,50 - 57,60 m keratophyre. Some veins or positions of white quartz, mostly with some small inclusions of carbonates are present in 53,90 m (5 cm), 53,95 m (5 cm), 56,95 m (5 cm), and 77,40 - 77,55 m (complex of veins of white quartz with a lot of inclusion of carbonates with some aureole, which is created by biotites micas round). The average gradient of foliation is 55° - 60° round.

86,20 - 90,00

The sericitic and chloritic micaschist with biotite, garnet and quartz and with some calcitic minerales. Magnetites grains are present very, very scarce only. The mineralisation of sulphides isn't present mostly. This rock has a lot of weak intercalations of white quartz with some carbonates which are inclosed in mostly. The total colour of this rock is bright green-gray. The average gradient of foliation is 60° round.

90,00 - 91,50

The sericitic and chloritic greenschist and micaschist as well as in 44,60 - 86,20 m.

91,50 - 98,50

The sericitic and chloritic micaschist as well as in 86,20 - 90,00 m. In 91,85 m (5 cm) the position of white quartz is present, just the same in 93,70 m (5 cm) and in 98,20 m. In 96,10 - 96,30 m is much more quartz present in basement rock.

98,50 - 129,40

The sericitic and chloritic greenschist and micaschist as well as in 44,60 - 86,20 m, but mostly sericitic and garnetic micaschist with biotite. Some grains of Fe_3O_4 are scarce only. The mineralisation of some sulphides also isn't present or is very scarce only too. The much intercalations or positions of keratophyre and luphite of keratophyre are present mostly between 100,00 m and 110 m, and some clear important positions of keratophyre are exactly present in 101,00 - 101,15 m, in 103,45 - 103,70 m, in 106,30 - 106,55 m, in

106,70 - 106,90 m and in 107,20 - 107,45 m. On the other places these intercalations of keratophyre are not so clear and not so thick. This type of keratophyre has mostly quartz and the other some feldspar, less sericite and the other minerales, which are enclosed by the keratophyre basement materiale. The micas of biotite, some grains of garnet and after some rodlike or acicular crystales of hornblende, but scarce only and some very weak and poor mineralisation of FeS (creat small scales) and FeS₂ (creat small irregular grains). The total colour of keratophyre is white or gray-white. The average gradient of a foliation of this sericitic micaschist is 55°-60°-65° round.

129,40 - 135,50

The sericitic micaschist with a lot of grains of garnet and with some micas of biotite and with quartz mostly, without some sulphides mineralisation, without some grains of magnetite, but with a lot of intercalations or positions of keratophyre and luphite of keratophyre. This keratophyre has clear schistose structure and a lot of small micas of biotite and sericite which creat the cover of foliation plates mostly. The total colour of this types of keratophyre is white-gray mostly. Some mineralisation of sulphides isn't present. Some thick position of keratophyre rock are in 129,80 - 130,10 m, in 130,30 - 131,80 m, 132,15 - 132,60 m. In 130,10 - 130,25 m the white quartz position is present. The average gradient of foliation is 60° round.

135,50 - 143,40

The sericitic micaschist with some biotite with grains of garnet with quartz mostly, with some chlorite and calcitic silicates minerales and with some mineralisation of FeS₂ mostly, but very very poor only. The structure is phacoidal schistose. Some weak intercalations or little veins are created by quartz mostly, but by carbonates lessly too. The total colour of this rock is very bright green-gray. The average gradient of foliation is 65° and 70° round.

143,40 - 147,35

The sericitic and chloritic micaschist with some micas of biotite, with quartz, with garnet, but scarcely only and with some acicular crystales of aktinolite and hornblende but scarcely only too. The quartz mostly creat some pellets, schliers, veins or little bit thick positions in example in 144,75 m (5 cm) and in 145,20 (3 cm), and in 146,50 m (5 cm) and in 147,15 m (6 cm). The schistose structure is little bit clear, but not so much, more phacoidal or pell-mell structure too. The total colour of this rock is bright green-gray. The average gradient of foliation is 60° but 70° round too.

147,35 - 148,20

The chloritic and sericitic greenschist with some but not so much micas of biotite, without grains of garnet, with some calcitic silicates and with

some acicular small crystales of aktinolite and hornblende. Quartz creat some weak irregular intercalations, veins, schliers etc. The some mineralisation of FeS_2 mostly creat the irregular small grains, but in average is very very poor only. The structure of this rock is pell-mell or pahcoidal too, but schistosity is little bit clear. The total colour of this rock is bright green-gray. The average gradient of a foliation is 70° round.

148,20 - 150,70

The tiny-grained amphibolitic greenstone mostly with some acicular or rodlike crystales of hornblende with some calcitic silicates and with littl bit chlorite and with a lot of irregular schliers pellets, veins, weak intercalations of quartz mostly but of carbonates lessly too. Some mineralisation of sulphides, FeS_2 mostly is very scarce only. The total colour of this rock is green-gray or bright green gray too. The schistosity isn't clear. In 148,25 m (2 cm), in 148,35 - 148,50 m, in 148,70 - 148,85 m and in 149,00 m (5 cm) is white quartz position present without some footprint of some impregnation etc.

150,70 - 154,40

The keratophyre or luphite of keratophyre, which have quartz mostly, some feldspar, sericite, with calcitic silicates and chlorite and on some places with more chlorite, sericite, calcitic silicates and acicular crystales of hornblende (in 150,90 m, in 152,85 m and 152,85 m, in 153,10 m, in 153,20 m in 153,55 - 153,75 m, in 153,80 m and in 153,90 m). In this keratophyre are some intercalations of chlorite and sericitic micaschist with small biotite too. The mineralisation of some sulphides is very scarce only. The total colour of this rock is very bright green-gray. The schistosity isn't so much clear. The average gradient of foliation is 60° round.

154,40 - 160,50

The motley complex of weaks intercalations of keratophyre or luphite of keratophyre as well as in 150,70 - 154,40 m and sericitic-chloritic and chloritic-sericitic micaschist and greenschist too, with few biotite and without garnet, which are exchanged. On some places is mostly keratophyre or white quartz (in example in 159,40 - 159,60 m and in 160,20 - 160,50 m). This motley complex of rocks has some strongly impregnation of FeS_2 mostly, but of FeS too. The total colour of these rocks is bright green-gray. Schistose structure is on some places clear, but mostly pell-mell only. The average gradient of foliation is 50° - 60° round.

160,50 - 173,30

The chloritic and biotitic greenschist with quartz calcitic silicates, with some irregular pellets, schliers or some intercalations of quartz, with intercalations of keratophyres or luphite of keratophyres material (and with strong carbonatic

impregnation. The amphibole or actinolite too create a lot of small acicular crystals. Some strongly impregnation of FeS (create some scales) mostly but FeS₂ is present too (create small irregular grains). The schistose structure isn't much clear, the pell-mell or phacoidal structure are present mostly. Between 154,80 - 167,10 m this rock commemorate more medium-grained greenstone. The mineralisation of sulphides is more weak. The total colour of this rock is bright green-gray or green-gray too. The FeS₂ mineralisation concentrate mostly in the positions or intercalations of keratophyre and round them and in or round the intercalations veins or positions of the white-gray quartz. More FeS and FeS₂ little bit lessly are present in the positions or intercalations of greenschist, micaschist or greenish schist. The average gradient of foliation is 70°(?) The mineralisation of sulphides follows a foliation mostly. In FeS₂ mineralisation CuFeS₂ is present too but scarce only.

173,30 - 175,30

The rock with feldspar, quartz with small (medium-grained) acicular or rodlike crystals of hornblende and with the other minerals like chlorite carbonates grains or lenticles and pellets, with small grains of garnet and with some mineralisation of FeS₂ or little bit FeS but scarcely only. This rock commemorate a amphibolitic keratophyre. The structure is pell-mell mostly. The total colour is white green-gray.

175,30 - 179,55

The tiny-grained amphibolitic greenstone, with some irregular grains, lenticles, schliers, pellets etc. of carbonates, but of quartz too, but some porphyroblasts of feldspar are present scarcely too. Chlorite, calcitic silicates etc. are present too, but very few only. The mineralisation of sulphides is very scarce only, but on some places are present very small grains of Fe₃O₄ but scarcely only too. The total colour of this rock is green-gray. The schistosity isn't clear.

179,55 - 185,00

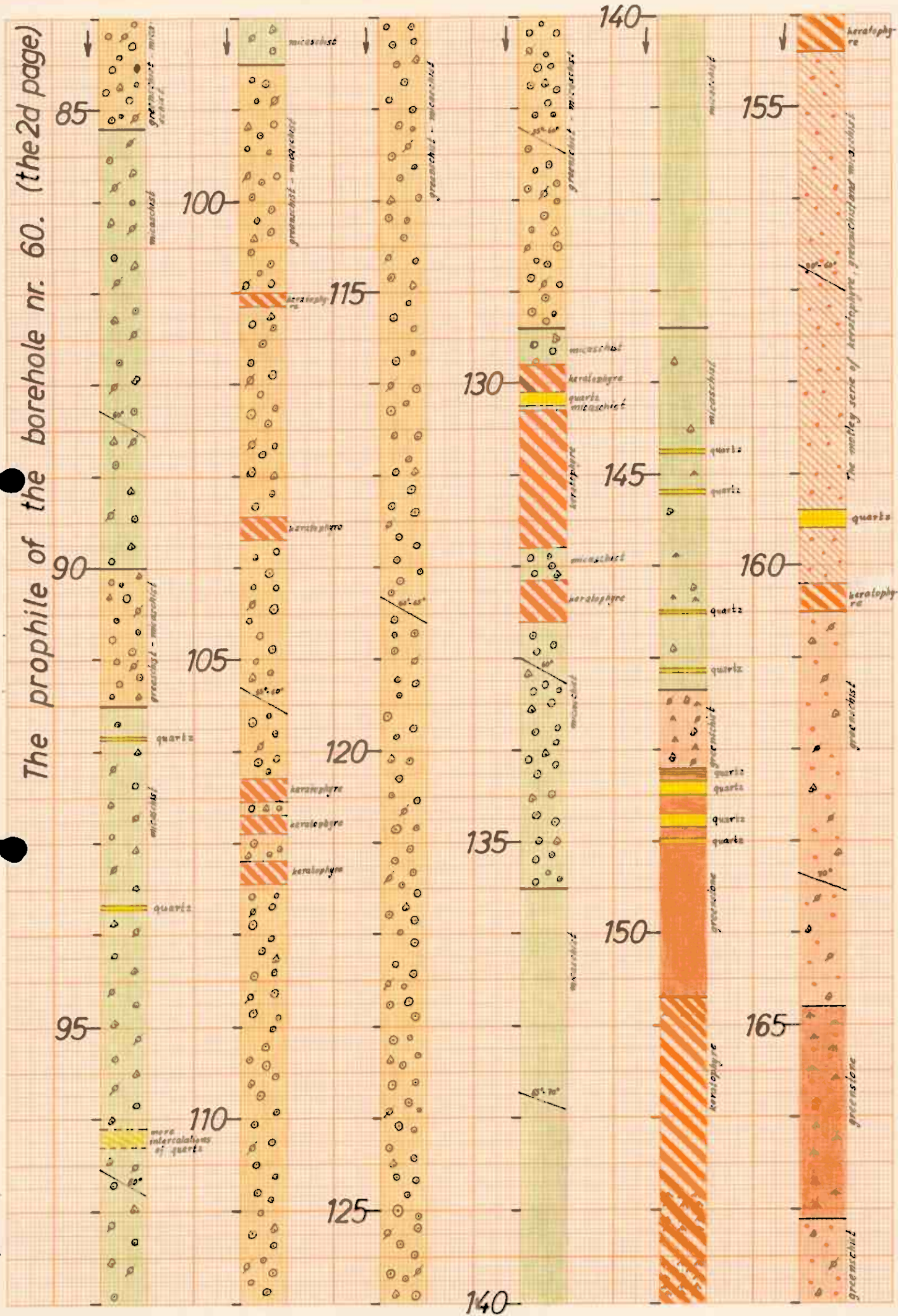
The same complex of rocks as well as in 160,50 - 173,30 m with just the same mineralisation of sulphides.

(M. Motys).

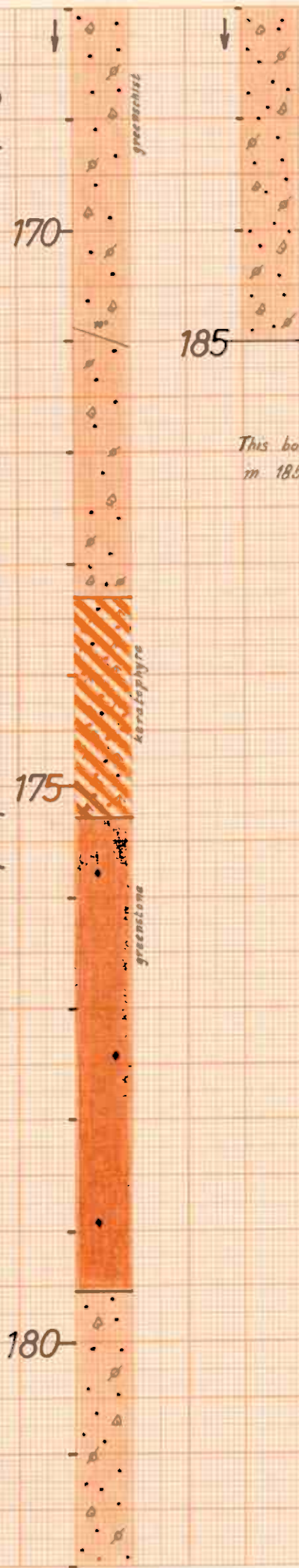
1.



The profile of the borehole nr. 60. (the 2d page)



The profile of the borehole nr 60 (the 3d page)



GRISUNSDALEN

Borhull nr. 17 (Hjerkinn).

0,00 - 17,75

The sericitic micaschist with mostly quartz and with chlorite, few biotite and on some places with some very small grains of garnet, but in weak micas intercalations only. Feldspar is present too but small only as well as carbonates, which are present scarce only. The schistose structure is very clear. The total colour of this rock is bright, little bit green-gray. The average gradient of foliation is 45° round. In 17,55 m is some intercalations of white quartz with average thickness 3 cm. Some mineralisation of sulphides isn't present.

17,75 - 18,00

The biotitic micaschist with quartz, a lot of small grains of garnet (max. 1 mm in average), with some chlorite, not much feldspar and few sericite too. The schistose structure is very clear. Some mineralisation of sulphides isn't present. The total colour of this rock is gray or little bit dark gray. The average gradient of foliation is 40° round.

18,00 - 18,95

The strongly chloritic greenschist with quartz, biotite, with a lot of irregular grains, pellets, schliers and irregular weak intercalations of carbonates, with small rodlike and acicular crystales of amphibole and with not so much aktinolite too. The schistose structure is clear. The total colour of this rock is gray-green or green and dark green too. Some mineralisation of sulphides isn't present. The average gradient of foliation is 45° round.

18,95 - 19,60

The chloritic and biotitic micaschist with quartz and with some lenticles, pellets, schliers, weak irregular intercalations or some irregular grains of carbonates (in 19,35 m and 19,40 m are some intercalations of carbonates, which have the average thickness 1,5 cm) and with some small rod-like or acicular crystales of amphibole and with not so much aktinolite too. The schistose structure is clear. The total colour of this rock is very bright green-gray. The some mineralisation of sulphides isn't present. The average gradient of foliation is 50° and 55° round.

19,60 - 20,45

The strongly biotitic micaschist with quartz, feldspar, chlorite and with small grains of garnet very scarcely only. The schistose structure is very very clear. The total colour of this rock is gray and dark gray, little bit bright green. The some intercalations or positions of chloritic and chloritic-biotitic micaschist as well as in 18,95 - 19,60 m are present too. In 20,00 m round is present a white quartz with some small enclosures of basement rock (biotitic micaschist). This quartz creat perhaps some filling (breccic) of some dislocation. The limonitic impregnation or covers are present

too. The average gradient of foliations of this rock is 40° round. The some impregnation of sulphides isn't present.

20,45 - 28,50

The chloritic and biotitic micaschist with quartz, a lot of schliers, pellets, weak intercalations or irregular grains of carbonates, with not so much aktinolite and with some albite. The schistosity is very clear. The total colour of this rock is bright green gray. The some mineralisation of sulphides isn't present. The average gradient of foliation is 50° round.

28,50 - 36,10

The chloritic and biotitic micaschist with quartz and with a lot of very small grains of garnet of pink colour mostly, and pink - more white too (max. grains are big 1 mm in average). The carbonates, grains, pellets, schliers or weak intercalations are present too, but not so much. Between 31,20 - 31,80 m is position of chloritic - amphibolitic micaschist, but better chloritic greenschist with small a lot of acicular crystales of amphibole, with aktinolite, with some grains and small pellets or schliers of carbomates, with very small and not so much grains of garnet. Biotite is very scarce only. The some mineralisation of sulphides isn't present in both types of rock. The total colour of this both types of rock is gray, green and little bit dark gray-green. The average gradient of foliation is 45° round.

36,10 - 36,60

The biotitic micaschist with quartz, some sericite, scarcely with feldspar and with chlorite, small acicular crystales of amphibole very scarcely only. The total colour of this rock is gray. The schistose structure is very clear. Some mineralisation of sulphides isn't present. Garnet isn't present. The average gradient of foliation is 60°-65° round.

36,60 - 37,70

The strongly amphibolitic micaschist with biotite, quartz and with not so much intercalations or lenticles of carbonates. Chlorite, aktinolite and epidote are present too, but not much, scarcely only. Amphibole creat small acicular or rodlike crystales (max. 2-3 mm long). The some mineralisation of sulphides isn't present. The total colour of this rock is little bit green-gray. The schistosity isn't clear.

37,70 - 40,00

Biotitic strongly amphibolitic micaschist with quartz, a lot of sericite, a lot of big and small grains of pink garnet (3-5 mm in average max.). Amphibole creat big rodlike or acicular crystales (0,5 - 1 cm big max.). Some pellets, schliers or intercalations and lenticles are created by carbonates. Some mineralisation of sulphides isn't present. The total colour of this rock is green gray or dark gray. The schistosity isn't clear.

40,00 - 42,45

The biotitic and sericitic micaschist with quartz, a lot of big or small grains of white-pint or pint garnet and with a lot of small crystales (acicular or rodlike) of amphibole (max. 3 mm long). The schistose structure of this rock is little bit clear. Some mineralisation of sulphides isn't present. The total colour of this rock is gray. The average gradient of foliation is 50°-60° round.

42,45 - 43,20

The biotitic and sericitic micaschist with quartz and some grains of garnet (1-2 mm in average). The schistosity is very clear. Some mineralisation of sulphides isn't present. The total colour of this rock is gray og dark gray too. Some very thin little scales of FeS are present on some places, but very scarcely only. The average gradient of foliation is 55° round.

43,20 - 48,85

The biotitic and sericitic micaschist as well as in 42,45 - 43,20 m but with garnet scarcely only. But in 45,15 - 45,60 m this has more biotite and more carbonatic intercalations, pellets etc. and a lot of pint grains of garnet. The average gradient of foliation is 55° round.

48,85 - 49,15

The sericitic and biotitic micaschist with a lot of grains (white or whitepink) of garnet, with a lot of irregular grains, pellets etc. of carbonates with some poor impregnation of FeS (creat some scales or covers on foliations's plates mostly). Graphite creat some weak intercalations (1-2 mm average thickness) or weak impregnation. The schistose structure is clear. The total colour of this type of rock is gray, dark gray and black gray too. The average gradient of foliation is 70° round.

49,15 - 50,00

The rock, which is created by quartz, carbonates, garnet (a lot of grains, some from that are big 0,5 cm in average), epidote, aktinolite, some little crystales of amphibole and with not much plagioblaste too. This rock has some impregnation of FeS/FeS creat some thin scales or some not coherent covers on the foliation's planes. On some places graphite is present and creat some very thin scales or very thin not coherent coats on foliation's planes. But graphite is scarce only and mineralisation of FeS is very very poor and weak only. The total colour of this rock is bright brown gray or white-gray. The structure is pell-mell only.

50,00 - 50,20

The very strongly biotitic micaschist with quartz, some schliers, pellets and weak irregular intercalations of carbonates and with a lot of grains of garnet of pink colour (some grains are 0,5 cm big in average, the others 2-3 mm in average). The schistose structure is little bit clear. The total colour of this rock is black or black-gray. The average gradient of foliation is 40°-45° round.

50,20 - 53,50

Sericitic micaschist with quartz and feldspar and with some thin parallel positions or intercalations

of carbonates. On some places the biotite's micas are present and transversal biotites micas are somewhere present too but not much. This rock commemorate little bit keratophyre. The schistosity is little bit clear only. The total colour of this rock is white-gray. The average gradient of foliation is 40° (?).

53,50 - 61,10

The biotitic micaschist with chlorite (not much) quartz, with sericite, feldspar little bit too and with some irregular intercalations, schliers and joints filling of carbonates. The some mineralisation of sulphides isn't present. The total colour of this rock is little bit green bright gray. The average gradient of foliation is 40° round. In 55,75 - 55,95 m and 56,50 - 56,75 m are present the positions of rock, which is created by quartz, some feldspar and with some acicular crystales of amphibole (very small), some intercalations of schliers etc. of carbonates scarcely only. This rock has a gray-white colour. The schistosity isn't clear. Some very small biotites micas and some very very weak impregnation of FeS are present too, but very weak only. This type of rock is keratophyre perhaps too.

61,10 - 65,50

The sericitic micaschist with quartz with fewly the small micas of biotite with some feldspar scarcely and with some positions (1-2 cm thickness) intercalations, schliers or small, lenticles of carbonates. This type of rock as well as in 50,20 - 53,50 m. The schistosity is clear. The total colour of this rock is very bright or white-gray. The average gradient of foliation is 45° - 50° round. Some impregnation of sulphides isn't present or it's very very scarce only (FeS very small irregular grains or scales).

65,50 - 65,91

The biotitic micaschist or gneissicmicaschist with quartz, some feldspar, with a lot of white-pint grains of garnet and with some impregnation of FeS, which is created by some small scales or little bit by some not coherent coats on the foliation's planes. In the basic part of this biotitic micaschist some few impregnation of graphite's scales or weak intercalations of graphite are present. The schistosity is little bit clear in this rock. The total colour of this rock is dark gray. The average gradient of foliation is 50° round.

65,91 - 66,15

The graphitic schist with some very weak intercalations of biotitic micaschist, or quartz or carbonates. Carbonates creat some pellets, lenticles or grains too. The mineralisation of FeS only is present but very weak only and FeS creat some small scales or not coherent weak intercalations. The structure is phacoidal schistose or schistose. The total colour of this rock is blau-gray or black. The average gradient of foliation is 50° round.

66,15 - 66,70

The biotitic micaschist with a lot of white-pint grains (1 mm in average) of garnet, with quartz,

feldspar scarcely only and with some not coherent weak intercalations, lenticles or pellets of carbonates. The schistose structure is clear. Some impregnation of FeS only is very very scarce only (some small and thin scales). The total colour of this rock is dark gray. Some small scales of graphite are present too but without some coherence. The average gradient of foliation is 55° round.

66,70 - 66,80

The biotitic micaschist as well as in 66,15 - 66,70 but with more some intercalations or lenticles of carbonates and with some weak intercalations of graphitic schist (average thickness is 0,3 - 0,5 mm in max.). The average gradient of foliation is 50° or 55° round.

66,80 - 66,95

The strongly graphitic schist with some not strong mineralisation of FeS only and with some very weak and not coherent irregular intercalations of biotitic, chloritic micaschist and carbonates or quartz scarcely too. The structure is pell-mell, phacoidal and phacoidal-schistose mostly. The total colour of this type of rock is black gray. The average gradient of foliation is 50° - 55° round.

66,95 - 67,10

The sericitic micaschist with quartz, some feldspar some chlorite and biotite, with a lot of grains of garnet (small, 1 mm max., white colour) and with some lenticles or schliers of carbonates. Some impregnation of FeS mostly, but only perhaps is little bit more strongly present. The structure is phacoidal or phacoidal-schistose. The total colour of this rock is gray or little bit dark gray. The average gradient of foliation is 50° round. Some very, very weak impregnation of graphite is present too perhaps.

67,10 - 67,50

The gray quartz with some poor impregnation of FeS_2 mostly.

67,50 - 69,30

The sericitic micaschist with quartz, little chlorite and biotite very small only, with some not thick irregular intercalations, schliers or lenticles of carbonates (1-2 mm scarcely 1 cm or more in average thickness). Feldspar is little bit present too. Some mineralisation of sulphides is very scarcely only. Some very small grains of Fe_3O_4 are scarcely present too in this rock. The schistose or phacoidal-schistose structure is clear. The total colour of this rock is bright gray or gray. The average gradient of foliation is 55° round. In 68,00 - 68,10 m is position of white quartz with some lenticles of carbonates. In 68,50 - 68,55 m is position of gray quartz. In 68,70 m (2 cm) is position of white quartz and 68,80 m (1 cm) and 68,85 m the same. In 68,90 - 69,05 m the strong concentration of big biotite's micas (1-2 mm, but 5 mm in average).

69,30 - 70,75

The biotitic and chloritic greenschist with quartz,

aktinolite, epidote some feldspar and with a lot of grains, irregular intercalations, schliers or lenticles and pellets of carbonates. The phacoidal schistose structure is clear. The some mineralisation (impregnation) of sulphides is very scarce only. The total colour of this rock is bright green-gray. In 69,55 - 70,35 m is biotitic and sericitic micaschist with some rodlike or acicular crystales of amphibole (max. 1 cm long) and with a lot of intercalations of biotitic and chloritic greenschist as well as the basement rock of this position. The average gradient of foliation is 55° round.

70,75 - 73,35

The tiny-grained amphibolitic greenstone with a lot of biotite, with aktinolite, chlorite and quartz and little bit feldspar too. Carbonates creat some weak irregular intercalations or schliers, some filling of joints and position (7 cm thickness) in 72,40 - 72,47 m. Some mineralisation of sulphides is very very scarce only. The schistosity isn't clear. The total colour of this rock is gray-green.

73,35 - 73,75

The rock which is created by quartz mostly, some little bit only feldspar, with a lot of irregular intercalations, schliers, pellets etc. of carbonates, with a lot of grains of garnet (1-2 mm in average, bright pint colour) with some not much chlorite and biotite. The some very poor impregnation of FeS mostly is present too., but some very small grains of Fe_3O_4 is also present very scarcely only. The some weak intercalations of tiny-grained amphibolitic greenstone, greenschist and biotitic micaschist are round the both boundarys of this positions. The total colour of this type of rock is white or white-gray.

73,75 - 77,45

The biotitic micaschist with quartz, little bit with feldspar, scarcely with chlorite. Carbonates creat some weak intercalations, lenticles or weak schliers and position in 74,20 - 74,30 m. More chlorite is present from 76,40 m ca. The schistose and little bit phacoidal schistose structure is clear. The total colour of this rock is dark gray and dark green-gray after too. The average gradient of foliation is 45° - 50° round.

77,45 - 78,90

The biotitic micaschist with a lot of quartz, with some chlorite and with some little sericite. The some mineralisation of sulphides is very scarce only. The schistose structure is little bit clear. The total colour of this rock is white gray or very bright gray. The average gradient of foliation is 50° round. Much more chlorite is present ca. from 78,35 m. In 78,50 - 78,75 m is peetition of tiny-grained amphibolitic greenstone as well as 70,75 - 73,35 m.

78,90 - 79,50

The tiny-grained amphibolitic greenstone with a lot of biotite and some chlorite as well as in 70,75 - 73,35 m.

79,50 - 80,35

The coarse-grained calcareous amphibolitic greenstone with aktinolite, epidote, klnozoisite some chlorite and with a lot of biotite's small micas. Carbonates creat some irregular thin intercalations, schliers or pellets. Some mineralisation of sulphides is very, very scarce only. The structure is pell-mell. Amphibole creat some rodlike or acicular crystales (0,5 - 1 cm big max.) The total colour of this rock is bright green-gray.

80,35 - 80,77

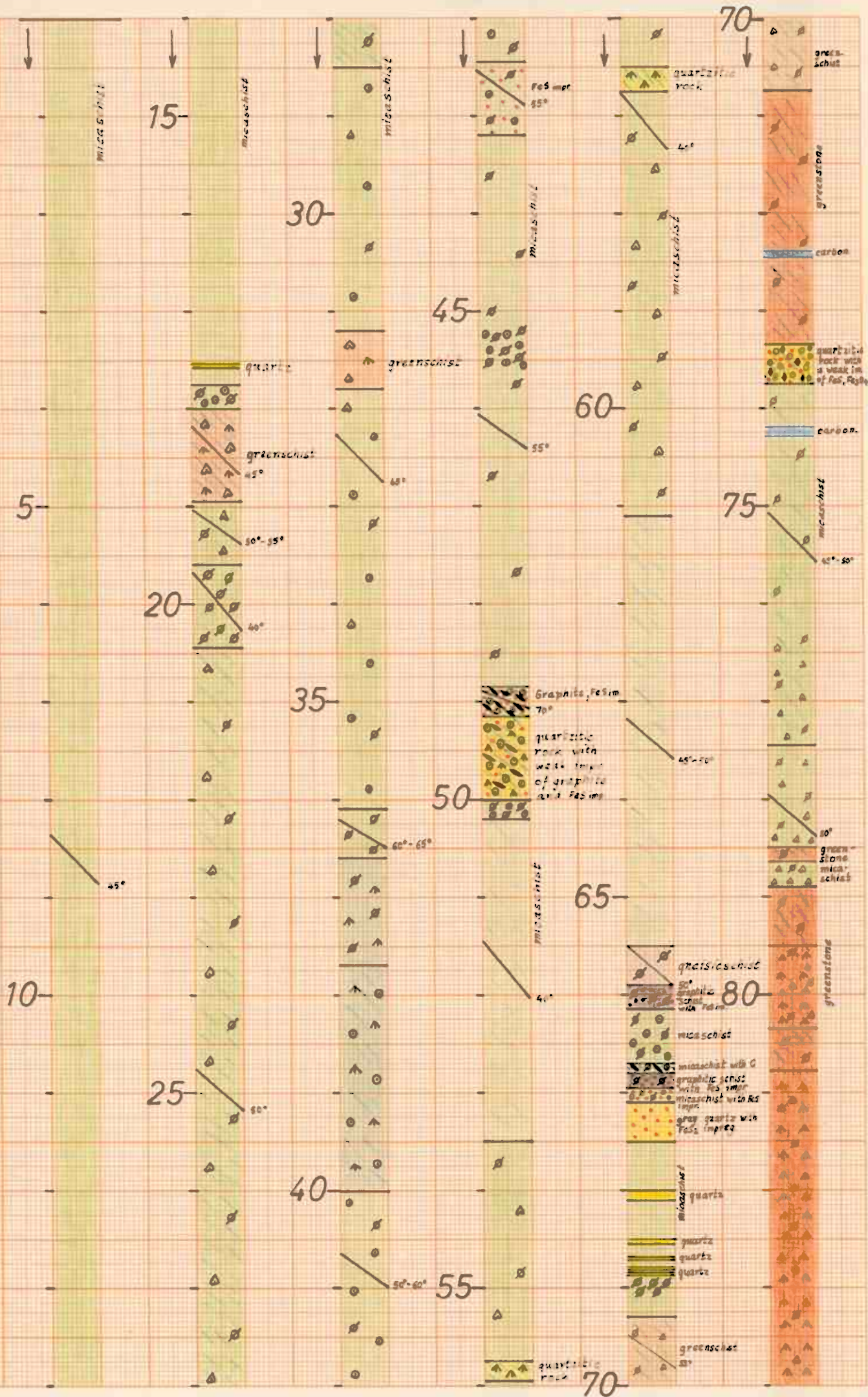
The tiny-grained amphibolitic greenstone as well as in 70,75 - 73,35 m.

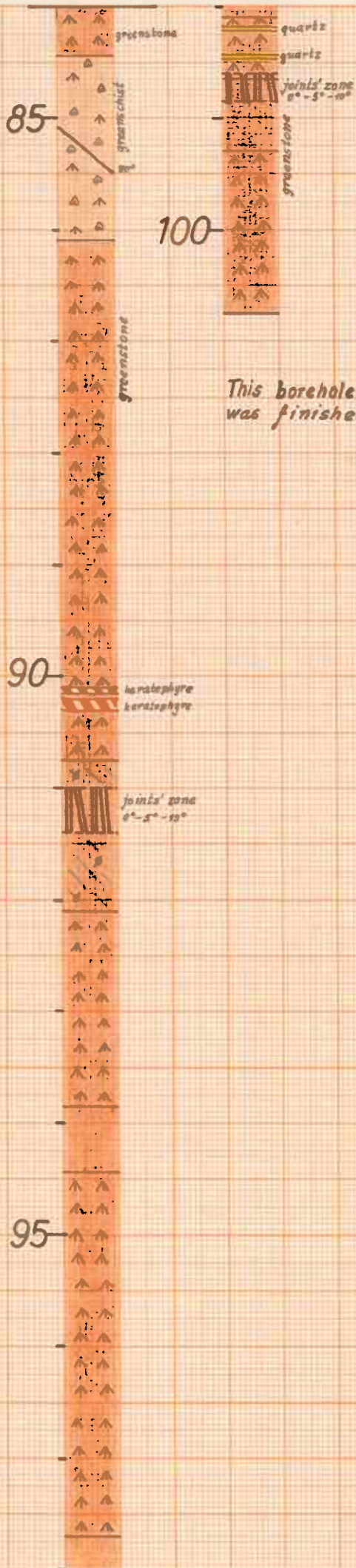
80,77 - 100,75

The coarse-grained amphibolitic greenstone as well as in 79,50 - 80,35 m. In 84,45 - 86,10 m is position of chloritic and sericitic greenschist with a lot of acicular crystales of amphibole and aktinolite too. Quartz, some biotite's micas and some irregular intercalations, schliers, pellets etc. of carbonates are present too. Some mineralisation of sulphides is very scarce only. The total colour of this rock is bright gray. The average gradient of foliation is 50° round. In 90,75 - 92,10 m, in 93,85 - 94,45 m, in 97,70 - 98,10 m and in 98,65 - 99,30 m are positions of tiny-grained amphibolitic greenstone as well as in 70,75 - 73,35 m. In 90,10 - 90,15 m and in 90,20 - 90,30 m are some positions of white or white-gray keratophyre with some chlorite and with some small acicular crystales of amphibole and aktinolite too. Some irregular lenticles or intercalations are created by carbonates. Some mineralisation of sulphides is very, very scarce only. In 88,20 m and 88,45 m are some position of white quartz, with some big grains (irregular) of FeS₂ in carbonates lenticles. The grains of FeS₂ are 1-2 mm in average big, but mineralisation is very, very, poor only. In 91,00 - 91,40 and in 98,60 - 98,85 m are some transversal joints with the angles of dip 0°-5°-10° round, which are fullfilled by carbonates.

(M. Motys).

THE PROPHILE OF BOREHOLE NUMBER 17.





DIAMANTBORHULL nr. 36						Begynt dato :											
						Stoppet dato:											
Lokalitet : Rustbui, Grisingdalen																	
(Grave)Koordinater $X = 10200 V$ $X = 3100 N$ $Z =$																	
Fall : 50 ° ' "				Diameter : 46 mm		Målestokk 1:100											
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver											
	Farge eller skrapering	Bergrartsnu- mer event symbol	Fallvin- kel f. f. f.	Anmerknng	Borhulls avvik °	Utvinning %	Provenumer	Lengde	Analyseresultater								
									%	%	%	%	%	%			
m.																	
				Grönskifer													
10				Grønnstein, grovkornet m/ hbl. porfbl.													
				Grönskifer													
20																	

DIAMANTBORHULL nr. 36										Begynt dato :				
										Stoppet dato:				
Lokalitet :														
(Grube)Koordinater X = Y = Z =														
Fall : ° ' "					Diameter : mm		Målestokk 1:100							
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel-foli.	Anmerkning	Borhulls avvik	Utvinning	Provenummer	Lengde	Analyseresultater					
									%	%	%	%	%	%
m					°	%			%	%	%	%	%	%
				Grønnskifer										
30				Grønnskifer, grovkornet.										
				Grønnskifer finkornet.										
				Magnetkis										
40				Grønnskifer										

DIAMANTBORHULL nr. 36

Begynt dato :

Stoppet dato:

Lokalitet :

(Grube)Koordinater X = Y = Z =

Fall :

Diameter : mm Målestokk 1:100

m	Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver								
		Farge eller kravering	Bergartsnu- mer event symbol	Fallvinn- ket tell.	Anmerking	Borhulls avvik	Fallingning	Provennummer	Lengde	Analyseresultater						
										%	%	%	%	%	%	
46.63				Grønnskifte,												
50																

DIAMANTBORHULL nr. 38

Begynt dato :

Stoppet dato: 6.65

Lokalitet : *Grisungdalen*(Grunn) Koordinater $X = 2200 V$ $Y = 3255 N$ $Z =$

Fall : 50 ° ' "

Diameter : 46 mm

Målestokk 1:100

Avstand Dybde		Geologisk profil			Kjerne		Kjerneprøver							
m	Farge eller skravering	Bergartsnu- mer event- symbol	Fallvinn- ing °	Anmerking	Borhull's avvik °	Faltvinnning %	Proveniens	Lengde	Analyseresultater					
									%	%	%	%	%	%

DIAMANTBORHULL nr. 38

Begynt dato :

Stoppet dato :

Lokalitet :

(Grube)Koordinater X = Y = Z =

Fall :

Diameter : mm Målestokk 1:100

≡	Geologisk profil				Kjerne		Kjerneprover							
	Farge eller skravering	Bergartssymbol eventuelt symbol	Fallvinkel t.d.	Anmerking	Borhulls avvik	Utvinning	Provennummer	Lengde	Analyseresultater					
									%	%	%	%	%	%
30				Glimmer-skifer										
40				Grafitiskifer										

DIAMANTBORHULL nr. 39						Begynt dato : Stoppet dato: 6.65							
Lokalitet : <i>Grisungdalen</i>													
(Grave) Koordinater $X = 2200V$ $Y = 3105N$ $Z =$													
Fall : 50						Diameter : 46 mm			Målestokk 1:100				
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver						
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel f. l. l.	Anmerknng	Borhulls avvik	Utvinning	Provenumet	Lengde	Analyseresultater				
m					°	%			%	%	%	%	%
				<i>Tett, mørk kvartsittisk glimmerskifer</i>									
10				<i>Glimmerskifer</i>									
				<i>Glimmerskifer m/ grafit og FeS₂- impr.</i>									
20				<i>Grafit-skifer</i>									

DIAMANTBORHULL nr. 39										Begynt dato :									
										Stoppet dato :									
Lokalitet :																			
(Grube)Koordinater X = Y = Z =																			
Fall : ° ' "						Diameter : mm		Målestokk 1:100											
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver												
	Farge eller skravering	Bergartsnu- mer event- symbol	Fallvin- kel foli.	Anmerkning	Borhulls avvik °	Utvinning %	Provenumer	Lengde	Analyseresultater										
									%	%	%	%	%	%					
30				Glimmer- skifer															
				Glimmer- skifer m/ronater															
40				Glimmerskifer															

DIAMANTBORHULL nr. 39

Begynt dato :

Stoppet dato:

Lokalitet :

(Grube)Koordinater X =

Y =

Z =

Fall :

Diameter :

mm

Målestokk 1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skrapering	Bergartsnu- mer event symbol	Fallvin- kel folie	Anmerkning	Borhulls avvik	Utvinning	Provenumer	Lengde	Analyseresultater					
					°	%								
m					°	%			%	%	%	%	%	%
43.0				Glimmerskifer										
50														

DIAMANTBORHULL nr.						Begynt dato :								
						Stoppet dato :								
Lokalitet :														
(Grube)koordinater X = Y = Z =														
Fall : ° ' "				Diameter : mm		Målestokk 1:100								
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller strøveling	Bergartsbet. med event. symbol	Fall (vinkel) Retning	Anmerking	Borhulls dybde	Kjernetyping	Prøvetallet	Lengde	Analyseresultater					
									%	%	%	%	%	%
m					°	%			%	%	%	%	%	%
30				Kvartsittisk glimmerskifer										
				Granat- glimmerskifer										
40				Glimmerskifer										

DIAMANTBORHULL nr.						Begynt dato :											
						Stoppet dato:											
Lokalitet :																	
(Gruve)Koordinater X =						Y =											
						Z =											
Fall :				Diameter :		Målestokk 1:100											
Geologisk profil				Kjerne		Kjerneprøver											
Avstand Dybde	Farge eller skravering	Bergarten- mer event symbol	Fallvin- kel fyll.	Anmerkn ing	Borhulls avvik	Utvinning	Provenumer	Lengde	Analyseresultater								
									%	%	%	%	%	%			
3																	
48.27				Imp. FeS ₂ Glimmer- -skifer													
50																	

Borhull nr. 46, TVERRFJELLET.

3244 - 1460 N

(Petrographical description).

0,00 - 2,90

The tender or tiny-grained amphibolitic greenstone with a lot of chlorite, aktinolite and with epidote and klinozoisite, but with little bit albite and quartz too. The some very weak intercalations or schliers, pellets, lenticles etc. of carbonates are present too. The same mineralisation of FeS₂ or FeS are present too but very weak only (some grains are big max. 1-2 mm in average). The total colour of this rock is dark green-gray or green-gray.

2,90 - 4,05

The very strongly carbonatic coarse-grained and medium-grained amphibolitic greenstone with some biotite's micas, with chlorite, aktinolite, some epidote and klinozoisite, but with a lot of intercalations pellets, schliers, lenticles or graines of carbonates and little bit dolomite too. These some intercalations of carbonates have some maximally thickness 1-2 mm, but 1-2 cm somewhere too. The impregnation of FeS mostly, but FeS₂ too is present little bit more strongly. The grains (1-2 mm in average) of FeS or FeS₂ are irregular mostly. The total colour of this rock is dark green-gray or green-gray. The average gradient of foliation is 45° round.

4,05 - 6,40

The tiny-grained amphibolitic greenstone as well as in 0.00 - 2,90 m but with little bit more strongly impregnation of FeS₂ mostly. The average gradient of foliation is on some places 15°-20° on the other 40-45° round.

6,40 - 10,70

The coarse-grained, strongly carbonatic amphibolitic greenstone with big rodlike or acicular crystales of amphibole, with some biotite (on some places acumulation of biotite's micas (with a lot of grains lenticles, pellets, schliers etc. of carbonates or dolomite too. The impregnation of FeS₂ mostly is present (some irregular grains 1-2 mm big in average. Some carbonatic intercalations or positions have average thickness 2-3 cm. The total colour of this rock is dark green-gray or gray-green. The average gradient of foliation is 40° round.

10,70 - 13,30

The coarse-grained amphibolitic greenstone with rodlike or acicular crystales of amphibole. The some schistosity isn't clear. The mineralisation of FeS or FeS₂ is very scarce only. The total colour of this rock is dark gray-green.

13,30 - 16,20

The strongly carbonatic, coarse-grained amphibolitic greenstone with more strongly impregnation of FeS₂ mostly as well as in 6,40 - 10,70 m.

16,20 - 17,00

The strongly carbonatic coarse-grained and medium-grained amphibolitic greenstone as well as in 2,90 - 4,05 m, with more clear schistosity.

17,00 - 17,80

The strongly carbonatic, coarse-grained amphibolitic greenstone as well as in 6,40 - 10,70 m. In 17,70 - 17,80 m is position of carbonatic-dolomite with some impregnation of FeS_2 and with some inclusions of chlorite mostly. In 17,40 m round is some more strong impregnation of FeS_2 .

17,80 - 18,00

The carbonatic coarse-grained and medium-grained amphibolitic greenstone with little bit more clear schistosity as well as in 2,90 - 4,05 m.

18,00 - 18,70

The strongly carbonatic coarse- and medium-grained amphibolitic greenstone as well as in 17,00 - 17,80 m

18,70 - 19,60

The medium-grained amphibolitic greenstone with a lot of grains, pellets, schliers or intercalations of carbonates or dolomite too. The mineralisation of FeS_2 or FeS is very weak only. The total colour of This rock is dark green or dark gray-green. The schistose structure is more clear in this type of rock too. The average gradient of foliation is 40° - 45° round.

19,60 - 21,35

The strongly carbonatic or dolomitic coarse-grained or medium-grained little bit too amphibolitic greenstone as well as in 6,40 - 10,70 m. In 20,05 - 20,15 m is position coarse-grained amphibolitic greenstone with big acicular or rodlike crystales of amphibole and with some more strongly impregnation of FeS_2 mostly. In 21,25 m is present little bit strong impregnation of FeS_2 .

21,35 - 31,85

The strongly carbonatic or carbonate-dolomitic medium-grained or on some places more tiny-grained amphibolitic greenstone, with a lot of acicular crystales of amphibole, with some aktinolite and epidote and with some very weak impregnation of FeS_2 mostly. Some intercalations or positions of carbonates have the average thickness 2-5 cm, but 10 or more too. In example the positions of carbonates in 23,15 - 23,35 m, 23,40 - 23,50 m, 24,00 - 24,20 m, 24,30 - 24,40 m, 25,25 - 25,30 m, 27,00 - 27,05 m, 27,25 - 27,30 m, 27,40 - 27,48 m, 30,20 - 30,26 m, 30,55 - 30,70 m. In 25,00 - 25,25 m and 25,30 - 25,35 m the positions carbonatic coarse-grained amphibolitic greenstone are present. The some more strong strong impregnation of FeS_2 mostly are present in some arabonatic intercalations in 25,25 m (1 cm), in 30,60 m (1,5 cm) and in 31,00 m round (2 cm). The total colour of this rock is dark gray-green. The average gradient of foliation is 45° - 50° round.

31,85 - 35,60

The medium-grained amphibolitic greenstone on some places with a lot of schliers, intercalations, pellets, grains etc. of carbonates. The intercalation of the strongly carbonatic medium-grained amphibolitic greenstone as well as in 19,60 - 21,35 m are present too, but thin only. The impregnation of FeS_2 mostly is very weak only. The schistose structure is clear on some places only. The total colour of this rock is dark green or dark gray-green. The average gradient of foliation is 50° round.

35,60 - 37,70

The thick position of carbonates or dolomitic-carbonates. The some impregnation of FeS_2 mostly is very scarce only. The some small inclusions of chlorite are present on some places. The total colour of this rock is gray or bright blue-gray. In 37,60 m the position of coarse-grained amphibolitic greenstone is present

37,70 - 40,30

The medium-grained or tiny-grained amphibolitic greenstone with aktinolite, chlorite, klnozoisite and epidote, with acicular crystales of amphibole (2-5 mm long) and with some small very weak intercalations of carbonates. The schistose is more clearly. The same impregnation of FeS_2 mostly is very scarce only. The total colour of this rock is gray-green or bright gray-green. The average gradient of foliation is 40° - 45° round.

40,30 - 41,00

The tiny-grained amphibolitic greenstone with chlorite and with clear schistose structure and with a lot of thin intercalations of carbonates. The impregnation of FeS_2 is very weak only. The total colour of this rock is dark green or dark gray-green. The average gradient of foliation is 50° round.

41,00 - 41,65

The strongly carbonatic medium or tiny-grained amphibolitic greenstone with some weak intercalations of carbonates too as well as in 21,35 - 31,85 m.

41,65 - 42,90

The chloritic tiny-grained amphibolitic greenstone with a weak impregnation of FeS , but FeS_2 mostly. The schistose structure is little bit more clear. The total colour of this rock is dark green. The average gradient of foliation is 45° round. In 41,95 m - 42,00 m the position of carbonates is present. On the boundary of this position is some mineralisation of FeS_2 , but very thin only.

42,90 - 45,80

The strongly carbonatic medium-grained amphibolitic greenstone as well as in 21,35 - 31,85 m with a lot of intercalations of coarse-grained amphibolitic greenstone and carbonates, which have some little bit strongly impregnation of FeS_2 mostly, but weak only in average. The coarse-grained amphibolitic greenstone positions are in 43,15 m (5 cm), 43,60 m (5 cm), 43,65 m (5 cm), 43,90 m (3 cm), 44,00 m (1 cm), 44,25 m (5 cm), 44,45 m (8 cm), 44,75 m (1 cm), 45,75 m (2 cm). The carbonatic positions are in 43,05 m (3 cm), 43,85 m (3 cm), 44,05 - 44,25 m (with some weak impregnation), 44,30 - 44,35 m (with weak impregnation of FeS_2) and in 45,70 m round (3 cm with strong impregnation of FeS_2). The total colour of this rock is gray-green. The average gradient of foliation is 45° round.

45,80 - 47,30

The sericitic-biotitic micaschist with quartz, albite some chlorite etc. The mineralisation of FeS or FeS_2 isn't present or is very scarce only. The schistose is very clear. The total colour of this rock is bright gray. The average gradient of foliation is 45° round.

47,30 - 48,60

The position of quartz keratophyre with clear foliation, with chlorite and some intercalations of chloritic-biotitic micaschist or amphibolitic schist. Some position between 47,50 - 48,10 m is created by feldspar-quartz keratophyre with big acicular crystals of amphibole. Some mineralisation of FeS_2 or FeS isn't present. The total colour of this rock is very bright gray or orange-gray white too. The average gradient of foliation is 55° - 60° round.

48,60 - 50,60

The biotitic and chloritic micaschist with feldspar and quartz. This type of rock has porphyroblaste - schistose structure. The biotite's micas is very large (1-2 mm in average). The same mineralisation of sulphides isn't present. The total colour of this rock is dark gray. The average gradient of foliation is 50° - 55° round.

50,60 - 51,15

The quartz-feldspar keratophyre with chlorite and biotite on some places round the both boundary of this position. The total colour of this rock is white or little bit gray-white.

51,15 - 54,50

The chloritic-biotitic micaschist with feldspar, quartz, and some sericite. Very scarce only are present some thin intercalations of carbonates. The total colour of this rock is bright green-gray or little bit green-gray. The average gradient of foliation is 50° - 55° round.

54,50 - 60,75

The sericitic micaschist with chlorite and very scarce biotite, with a lot of very thin intercalations, schlieres or lenticles of carbonates. The impregnation of FeS_2 mostly is little bit strongly. Fe_3O_4 very small grains (0,5 mm - 1 mm max.) are present too, but not scarce only. FeS_2 irregular grains mostly, but regular grains too are 1 - 2 mm or more big in average. The schistose structure is very clear. The total colour of this rock is gray and bright gray. The average gradient of foliation is 55° round.

60,75 - 60,95

The strong impregnation of FeS_2 (CuFeS_2 scarce only) in a blue quartz. This impregnation creat ore horizon.

60,95 - 66,50

The biotitic micaschist with chlorite, quartz, scarcely feldspar, epidote or amphibole too. The some grains, schliers or pellets of carbonates are present very much. This rock has phacoidal schistose structure. In 63,00 m round has this type of rock a lot of very big rodlike and acicular crystals of amphibole (5 mm and max. 1 cm. big.) The some positions of dolomitic carbonates are present in 65,90 m (5 cm thick), and in 66,00 m (5 cm thick, but with some weak mineralisation of FeS_2 mostly.) The total colour of this rock is little bit green gray. The average gradient of foliation is 30° round.

This borehole was finished at 66,50 m.

Borehole no. 47, Tverrfjellet.

Petrographical description.

0,00 - 14,50

The tiny or tender-grained amphibolitic greenstone with a lot of grains and pellets, schliers, intercalations (1-3 cm thickness maximally) and the filling of joints of carbonates. The mineralisation of FeS_2 mostly is weak. The some intercalations of greenschist, biotitic and actinolitic greenschist and strongly carbonatic greenschist are present in this basement greenstone too mostly from 8,00 m. Some mineralisation FeS_2 but FeS too is concentrated round or on boundary of those greenschists intercalations or in mostly and round or in some carbonatic medium-grained greenstone's intercalations. Epidote, klnozoisite or aktinolite and chlorite are mostly present in greenschists intercalations. This mineralisation of sulphides is weak too but it's more clear than in basement rock. The total colour of this rock is dark green or dark gray-green. The average gradient of foliation is 30° round, but on some places 40° round.

14,50 - 18,50

The medium-grained and coarse-grained amphibolitic and strongly carbonatic greenstone with some big rodlike or acicular mostly crystales of amphibole (3-5 mm, but 1 cm too long), with a lot of regular crystales, irregular graines, schliers, pellets or intercalations of carbonates (some carb. crystales or grains are 2-3 mm big in average). Biotite (big micas 1-3 mm in average) klnozoisite, chlorite, aktinolite and little epidote are present too. Very strongly quartz is present. The mineralisation of FeS_2 and FeS is present more strongly. FeS_2 or FeS irregular graines mostly are very small but 1-2 mm in average big too. The little bit more strongly mineralisation of FeS_2 and FeS (50 % is present in some strongly quartz position with some carbonates and feldspar too in 14,60 m round (ca. 5 cm). The total colour of this rock is gray-green. The structure of this rock is porphyroblastose and pell-mell porphyroblastose too.

18,50 - 19,40

The medium-grained amphibolitic greenstone very strongly carbonatic too, with a lot of regular crystales, irregular grains, pellets or schliers of carbonates. Amphibole creat acicular or rodlike crystales (max. 1-2 mm big). This rock has sheaf-like and pell-mell structure. The mineralisation of FeS_2 or FeS is very scarce only. The total colour of this rock is dark gray-green.

19,40 - 20,25

The medium-grained and coarse-grained strongly carbonatic amphibolitic greenstone as well as in 14,50 - 18,50 m.

- 20,25 - 24,85 The medium-grained strongly carbonatic amphibolitic greenstone as well as 14,50 - 18,50 m, but with smaller crystales and with very weak impregnation of FeS_2 or FeS . In 22,25 - 22,30 m is parallel position of quartz and little bit feldspatic rock (keratophyre) with weak impregnation FeS_2 mostly.
- 24,85 - 25,25 The tiny-grained amphibolitic greenstone with a lot of grains, pellets and weak intercalations of carbonates. The total colour of this rock is dark gray-green. The mineralisation of FeS_2 or FeS is scarce only. The average gradient of foliation is 35° - 40° round.
- 25,25 - 26,35 The medium-grained strongly carbonatic amphibolitic greenstone as well as 20,25 - 24,85 m. In 25,40 - 25,45 m is parallel position of strongly quartz and little bit feldspatic rock (keratophyre) with very weak impregnation of FeS_2 mostly.
- 26,35 - 29,25 The tiny-grained amphibolitic greenstone as well as 0,00 - 14,60 m. In 27,90 m (5 cm), 28,55 m (2 cm) and 28,90 - 28,95 m (6 cm) are present some weak positions of strongly quartz rock with little bit feldspar (keratophyre) with little bit more strongly but poor mineralisation of FeS and FeS_2 mostly.
- 29,25 - 30,60 The tiny-grained amphibolitic greenstone with some schliers, pellets, grains or weak intercalations of carbonates. The impregnation of FeS_2 mostly but FeS too is very weak only. In 29,95 m round (5 cm) the parallel position of carbonates is present. The schistose structure isn't clear. The total colour of this rock is dark green or dark gray-green.
- 30,60 - 32,20 The medium-grained and coarse-grained strongly carbonatic amphibolitic greenstone as well as in 14,50 - 18,50 m. In 31,95 m (2 cm) is more strongly impregnation of FeS_2 mostly, but with some FeS too.
- 32,20 - 43,10 The tiny-grained and medium-grained amphibolitic greenstone with a lot of irregular grains, pellets or small schliers of carbonates. The structure is phacoidal mostly. Amphibole creat small acicular crystales. The impregnation of FeS_2 or FeS is very scarce only. The some not parallel positions of quartz (secretion or vein ?) are present in 36,45 m (7 cm) 37,35 m (8 cm) and in 40,70 - 40,80 m. The total colour of this rock is dark gray-green. The average gradient of foliation is 30° - 35° round.
- 43,10 - 43,70 The position of gray or blue-gray quartz with very weak impregnation of FeS_2 mostly, but little bit FeS too.
- 43,70 - 43,95 The coarse-grained amphibolitic greenstone with a lot of big biotite's micas with klnozoisite, epidote, aktinolite and with a lot of carbonates, schliers, pellets and grains. Quartz is present too little bit. The same strong impregnation of FeS_2 mostly is in 43,70 - 43,80 m. The total colour

of this rock is dark gray-green. The average gradient of foliation is 25° round. Amphibole creat big rod-like and acicular crystales.

43,95 - 48,10

The tiny-grained amphibolitic and chloritic greenstone with epidote, klnozoisite and some aktinolite. The carbonates pellets, schliers, grains or intercalations are not so much, small or scarce only. The some thin intercalations of quartz with not much feldspar somewhere and with poor impregnation of FeS_2 mostly, are present mostly. In this type of rock is more clear schistose structure. Some foulding are present too in 46,00 - 47,00 m mostly. The impregnation of sulphides is more strongly, mostly FeS_2 . The total colour of this rock is dark green or dark gray-green. The average gradient of foliation is 40° round.

48,10 - 48,75

The amphibolitic greenschist with chlorite, actinolite big rodlike and mostly acicular crystales of amphibole and epidote and klnozoisite present too. Carbonates are very scarce only. The mineralisation (impregnation) of FeS_2 mostly is very poor only. The schistose structure is very clear. The total colour of this rock is gray-green or bright gray-green. The average gradient of foliation is 40° round.

48,75 - 49,30

The tiny-grained amphibolitic greenstone with actinolite, chlorite and little bit epidote and klnozoisite too and with a lot of schliers, pellets grains, weak intercalations or filling of some joints etc. of carbonates. The impregnation of sulphides is very, very weak only. The schistose structure is little bit clear. The total colour of this rock is dark green or dark gray-green. The average gradient of foliation is 25° - 30° round.

49,30 - 49,85

The sericitic mica schist with biotite, some chlorite and scarce amphibolite or actinolite too. The quartz is mostly present too. The schistose structure isn't much clear. The total colour of this rock is bright gray. The average gradient of foliation is 60° round. This rock is without any impregnation of sulphides.

49,85 - 50,35

The tiny-grained amphibolitic greenstone as well as in 48,75 - 49,30 m. The average gradient of foliation is 50° round.

50,35 - 50,65

The medium and coarse-grained, strongly carbonatic amphibolitic greenstone as well as 14,50 - 18,50 m but with very, very weak impregnation of sulphides only.

50,65 - 51,45

The tiny-grained amphibolitic greenstone as well as in 48,75 - 49,30 m. The average gradient of foliation is 40° - 45° round.

51,45 - 51,60

The medium-grained biotitic micaschist with quartz or gneissischist, some feldspar and scarce chlorite

too. The schistose structure isn't very clear. The total colour of this rock is gray. The average gradient of schistosity is 60° round.

- 51,60 - 52,30 The sericitic micaschist as well as in 49,30 - 49,85 m. The average gradient of foliation is 60° round.
- 52,30 - 52,70 The rock, which are created by quartz and feldspar with very small biotite and with very weak impregnation of FeS_2 mostly. (Keratophyre).
- 52,70 - 53,00 The tiny-grained amphibolitic greenstone as well as in 48,75 - 49,30 m. The average gradient of foliation is 50° round.
- 53,00 - 53,80 The medium- and coarse-grained strongly carbonatic amphibolitic greenstone as well as in 50,35 - 50,65 m.
- 53,80 - 54,00 The sericitic micaschist as well as in 49,30 - 49,85 m. The average gradient of foliation is 60° round.
- 54,00 - 54,40 The tiny-grained amphibolitic greenstone as well as 48,75 - 49,30 m. The average gradient of foliation is 25° - 30° round.
- 54,40 - 55,00 The sericitic and biotitic micaschist as well as in 49,30 - 49,85 m. The average gradient of foliation (?) is 60° round.
- 55,00 - 55,25 The keratophyre with some micas or biotite very scarce and with some small irregular grains of FeS_2 scarce only too. This rock is created by quartz and feldspar only. Amphibole's acicular small crystals and some chlorite are present too in this rock. The total colour of this rock is white or gray-white.
- 55,25 - 55,65 The tiny-grained amphibolitic greenstone as well as in 48,75 - 49,30 m. The average gradient of foliation is 30° - 35° round.
- 55,65 - 56,10 The sericitic biotitic micaschist as well as 49,30 - 49,85 m. The average gradient of foliation is 55° - 60° round.
- 56,10 - 56,35 The medium and tiny-grained amphibolitic greenstone as well as in 48,75 - 49,30 m, but with more chlorite and some very weak mineralisation of FeS_2 only. The average gradient of foliation is 55° round.
- 56,35 - 56,60 The sericitic and biotitic micaschist as well as in 49,30 - 49,85 m. The average gradient of foliation is 60° round.
- 56,60 - 56,70 The keratophyre as well as in 55,00 - 55,25 m. The average gradient of foliation is 40° .
- 56,70 - 57,16 The sericitic and biotitic micaschist (? may be keratophyre too), with quartz, feldspar and

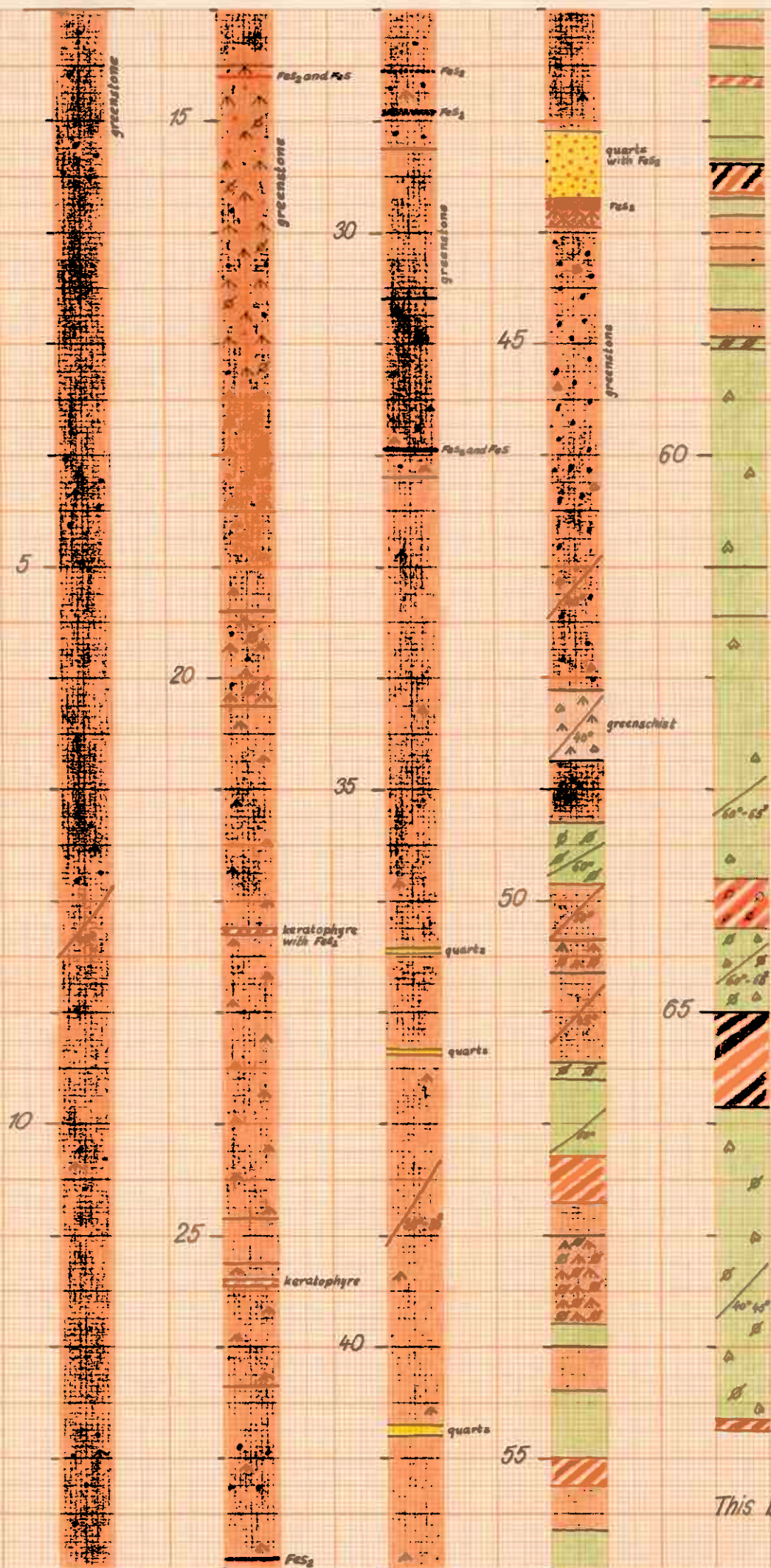
- chlorite, aktinolite. This type of rock hasn't clear schistosity. The total colour of this rock is bright gray. The average gradient of foliation is 50° round.
- 57,16 - 57,35 The biotitic micaschist with quartz, chlorite and some feldspar. The schistosity is more clear in this rock. The total colour of this rock is gray. The average gradient of foliation is 45° round.
- 57,35 - 57,40 The coarse-grained strongly carbonatic amphibolitic with rodlike or acicular crystals of amphibole as well as 50,35 - 50,65 m. The mineralisation of FeS_2 is very scarce only.
- 57,40 - 57,65 The keratophyre as well as in 56,60 - 56,70 m. The average gradient of foliation is 45° round.
- 57,65 - 57,70 The tiny-grained amphibolitic greenstone as well as in 48,75 - 49,30 m. The average gradient of foliation is 40° round.
- 57,70 - 57,85 The sericitic micaschist as well as in 56,70 - 57,16 m. The average gradient of foliation is 45° round.
- 57,85 - 58,15 The coarse-grained or medium-grained strongly carbonatic amphibolitic green-stone as well as in 50,35 - 50,65 m.
- 58,15 - 58,30 The tiny-grained chloritic-amphibolitic greenstone where the positions of more chloritic and more epidotic exchange. Carbonates intercalations or grains etc. are scarce only in this type of rock. The total colour of this rock is very dark green. Some impregnation of FeS_2 mostly is present, but very poor only and also present some grains of Fe_3O_4 (only very small). The average gradient of foliation is 50° round.
- 58,30 - 58,70 The sericitic micaschist as well as in 56,70 - 57,16 m. The average gradient of foliation is 55° - 60° round.
- 58,70 - 58,95 The tiny-grained amphibolitic greenstone as well as in 48,75 - 49,30 m. The average gradient of foliation is 25° - 30° round.
- 58,95 - 59,05 The biotitic micaschist as well as in 57,16 - 57,35 m. The average gradient of foliation is 60° round.
- 59,05 - 61,00 The sericitic and little bit chloritic micaschist with much quartz and feldspar and scarcely with biotite. The schistosity isn't clear. The total colour of this rock is bright gray little bit white-gray.
- 61,00 - 61,45 The sericitic micaschist with quartz and feldspar as well as in 56,70 - 57,16 m. (Keratophyre?).

- 61,45 - 63,80 The sericitic and little bit chloritic micaschist as well as in 59,05 - 61,00 m. The average gradient of foliation is 60°-65° round.
- 63,80 - 64,25 Keratophyre with some biotite's micas. This rock is created by quartz and feldspar. The total colour is white-gray.
- 64,25 - 65,00 The biotitic-chloritic micaschist with sericitic, actinolite, little epidote and klnozoisite, with quartz and some fedlspar and with some grains, pellets, schliers or irregular intercalations of carbonates. The schistose structure is little bit clear. Some impregnation of sulphides isn't present in this rock. The total colour of this rock is little bit green bright gray. The average gradient of foliation is 60°-65° round.
- 65,00 - 65,85 The keratophyre, the same type as in 63,80 - 64,25 m.
- 65,85 - 68,65 The biotitic-chloritic micaschist as well as in 64,25 - 65,00 m, but with some parallel or not parallel positions of white quartz in 66,35 - 66,40 m in 66,60 - 66,65 m and 66,75 - 66,80 m. The average gradient of foliation is 40°-45° round.
- 68,65 - 68,75 The keratophyre, just the same type as in 63,80 - 64,25 m and 65,00 - 65,85 m.

This borehole number 47 was finished at 68,75 m.

(M. Motys).

The proppile of borehole nr. 47.



This borehole nr. 47

The borehole no. 62, H J E R K I N N .

(The petrographical description).

0,00 - 16,80

The chloritic and biotitic greenschist with some small acicular crystales of actinolite and hornblende, with calcitic silicates and on some places with a lot of parallel weak positions or intercalations of carbonates (1-5 mm but 1 cm is the average thickness). Carbonates creat also some irregular schliers, pellets etc. but not so much. Some mineralisation of sulphides os very very poor only. FeS creat some small scales and FeS₂ creat small irregular grains. The scales of FeS follow the foliation. (In 11,80 m the very weak, oblique vein of quartz is present with some inclosings aureolitic field of micas of biotite on the both sides. The average thickness of this vein is 1-2 mm. In thi weak vein of quartz is present irregular small grain of CuFeS₂ in 11,80 m). The parallel schistose structure is very vlear. The total colour of this rock is green-gray. The average gradient of foliation is 65° round.

16,80 - 18,45

The very strongly calcarcous, chloritic and biotitic greenschist with some small rodlike crystales of hornblende, but very few only present and with a lot of epidote and the others calcitic silicates. Carbonates creat the parallel intercalations or positions 2-5 mm but mostly 1-2 cm average thickness. The mineralisation of sulphides is scarce only or isn't present. The schistose structure is very clear. The total colour of this rock is white green-gray. The average gradient of foliation is 65° round.

18,45 - 19,20

The white-gray or gray biotitic quartzite, with some very weak, little bit parallel, but irregular mostly intercalations of micas of biotite (the thickness is maximally 1 mm). Biotite creat also some small micas the oblique too, which are impregnated in the basement quartzitic material. Chlorite is little bit present too. The schistosity is little bit clear. Some mineralisation of sulphides isn't present or is very scarce only. The average gradient of foliation is 55° and 60° round.

19,20 - 26,30

The chloritic and biotitic quartzite. Biotite and chlorite creat the cover of foliation plates mostly, together with sericite too but micas of biotite mostly, the oblique too, creat some impregnation in the basement quartzitic material. The schistose structure is very clear. Some mineralisation of sulphides isn't present or is very scarce only. The total colour of this rock is white or white-gray. The average gradient of foliation is 50°-55° round.

26,30 - 36 10

The white-gray or gray biotitic and chloritic quartzite the same as in 18,45 - 19,20 m. The averag

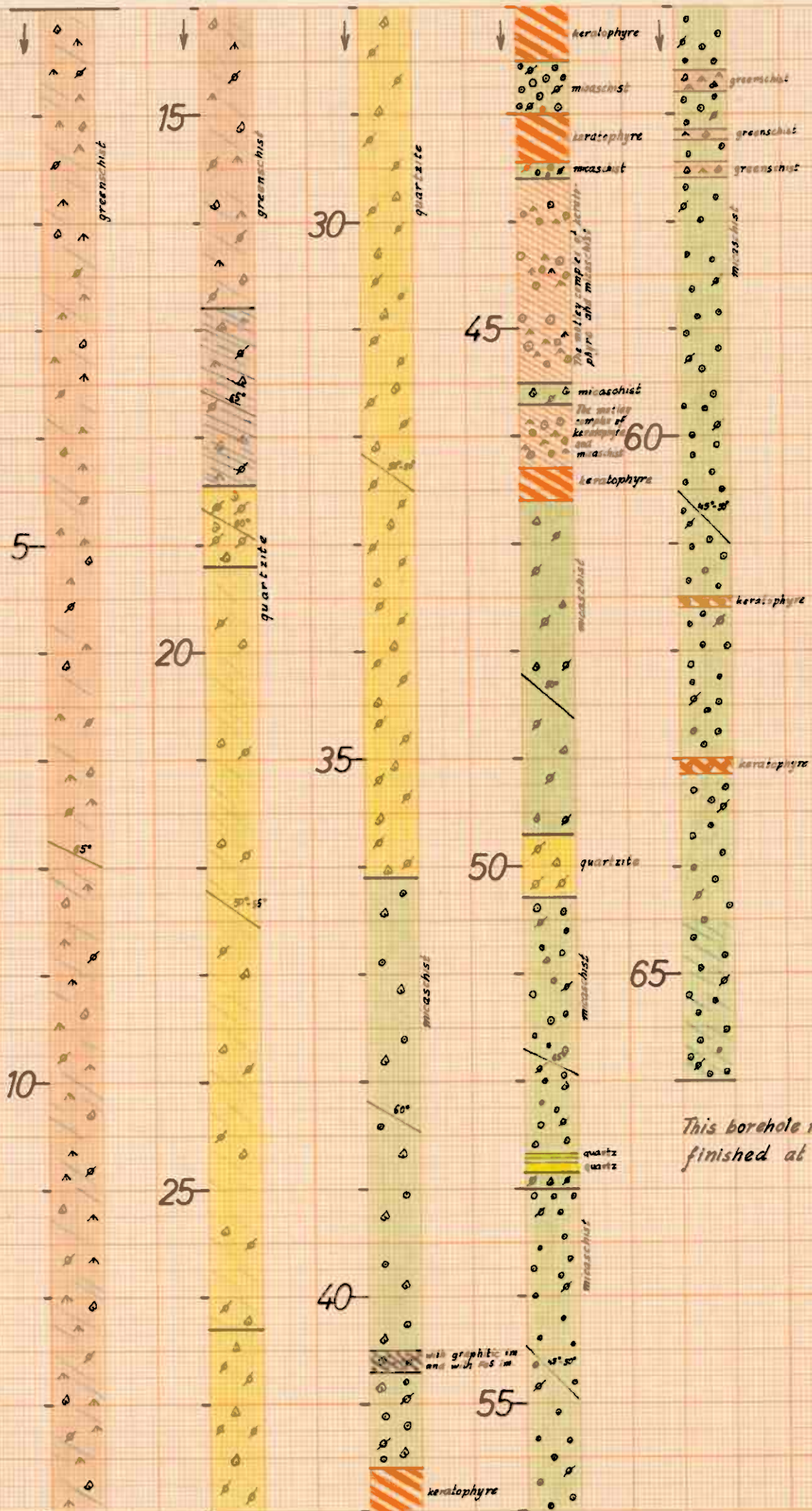
- gradient of foliation is 55° and 50° round. The pell-mell or phacoidal structure are present oftenly.
- 36,10 - 40,50 The sericitic and chloritic micaschist with quartz mostly and with not much the small grains of pink garnet. Biotit is present very few only. The phacoidal and phacoidal schistose structure is clear. The total colour of this rock is very bright gray. The average gradient of foliation is 60° and 65° round. Some mineralisation of sulphides isn't present or is very, very scarce only (From 38,00 - 40,00 m the loosening of the boreholes core is very big.)
- 40,50 - 40,70 The chloritic and epidotic micaschist with a lot of graphitic substance (graphitic schliers etc. - very weak). On some places the micas of biotite and the grains of garnet are more present too. The impregnation of graphite is poor altogether. The mineralisation of FeS mostly, but of FeS₂ too is present more strongly in this type of rock. The schistosity parallel and little bit phacoidal schistose structure is very clear. The total colour of this rock is dark gray or black gray too. The average gradient of a foliation is 65° round.
- 40,70 - 41,60 The sericitic and chloritic micaschist as well as in 36,10 - 40,50 m. but with more biotite and garnet.
- 41,60 - 42,50 The quartz keratophyre with few biotites micas and sericite. The some mineralisation of sulphides isn't present. The schistose structure isn't clear. The total colour of this rock is gray and bright gray. In some places are present small acicular crystales of hornblende and some grains of pinkt garnet.
- 42,50 - 43,00 The sericitic and biotitic micaschist with some chlorite, epidote and with small rodlike and irregular crystales of hornblende. Garnet is also strongly present and creat some big grains oftenly (5 mm in average). Actinolite and the others calcitic silicates are present too. The mineralisation of sulphides is very scarce only, but isn't present mostly. The total colour of this rock is gray or little bit green-gray too. The schistosity isn't so clear but the average gradient of foliation is 50° and 55° round.
- 43,00 - 43,45 The keratophyre as well as in 41,60 - 42,50 m.
- 43,45 - 43,60 The sericitic and biotitic micaschist with garnet as well as in 42,50 - 43,00 m.
- 43,60 - 45,50 The keratophyre as well as in 41,60 - 42,50 m. but with more acicular crystales of hornblende, grains of garnet and with some intercalations of sericitic and chloritic micaschist.
- 45,50 - 45,70 The sericitic, biotitic and chloritic micaschist with a lot of garnet as well as in 42,50 - 43,00 m.
- 45,70 - 46,30 Just the same complex - motley complex as well as in 43,60 - 45,50 m.

- 46,30 - 46,60 The keratophyre as well as in 41,60 - 42,50 m.
- 46,60 - 49,70 The biotitic micaschist with sericitic and chlorite, mostly with quartz. Garnet is present very few only. Some weak intercalations of keratophyre as well as in 41,60 - 42,50 m are present but not so much. The schistose structure is very clear. The mineralisation of sulphides isn't present mostly. The total colour of this rock is gray. The average gradient of foliation is 50° round.
- 49,70 - 50,30 The biotitic and chloritic quartzite, white-gray or gray as well as in 18,45 - 19,20 m.
- 50,30 - 52,85 The biotitic and sericitic micaschist with some chlorite and epidote, klnozoisite too and with a lot of small pink grains of garnet. The parallel schistose structure is little bit clear. The same mineralisation of sulphides isn't present. The total colour of this rock is gray or bright gray. The average gradient of foliation is 60° and 65° round. In 52,70 m (7 cm) and in 52,80 m (10 cm) are some position of white quartz.
- 52,85 - 53,00 The sericitic, biotitic and chloritic micaschist with garnet and with acicular crystales of hornblende as well as in 42,50 - 43,00 m.
- 53,00 - 66,00 The sericitic and biotitic, tiny-grained micaschist with a lot of small grains of pink garnet, with chlorite, epidote and klnozoisite etc. few too. On some places and mostly from 64,50 m is this rock more calcarous. The schistosity isn't so clear. The some mineralisation of sulphides is very scarce only and mostly isn't present. The total colour of this rock is bright gray or gray. The average gradient of a foliation is 45°, 50° round. In 56,60 - 56,80 m, in 57,15 m - 57,25 m and in 57,45 - 57,60 m are some positions of chloritic and amphibolitic greenschist with some small grains of garnet, with acicular or rodlike crystales of hornblende but with a lot of parallel and irregular intercalations of quartz. In 61,50 - 61,60 m and in 63,00 - 63,15 m are some intercalations of keratophyre with a lot of grains of garnet and with some micas of biotite and chlorite: very small only and not so much.

This borehole no. 62 was finished in 66,00 m.

(M. Motys).

The profile of the borehole nr. 62.



This borehole nr. 62 was finished at 66,00 m.

DIAMANTBORHULL nr. 62

Begynt dato :

Stoppet dato: 9.65

Lokalitet : Rolstadseter, Grisingdalen

(Grube) Koordinater $X=4150V$ $X=2650N$ $Z=$

Fall : 50 ° ' "

Diameter : mm

Målestokk 1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprover								
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foli.	Anmerkning	Borhulls avvik	Jivinning	Provenummer	Lengde	Analyseresultater						
					°	%									
3										%	%	%	%	%	%
				Amfibolitt - skifer											
10				Kvartsittisk glimmerskifer											
				Tett, kvartsittisk glimmerskifer											

DIAMANTBORHULL nr. 62										Begynt dato :				
										Stoppet dato :				
Lokalitet :														
(Grove)Koordinater X = Y = Z =														
Fall :					Diameter :		mm		Målestokk 1:100					
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skrapering	Bergartsnu- mer event symbol	Fallvin- kel tell.	Anmerknng	Borhulls avvik	Utvinning	Provenumer	Lengde	Analyseresultater					
									%	%	%	%	%	%
30				Tett, kvartsittisk glimmerskifer										
				Kjernetap										
				Granat- glimmerskifer										
40				Kvartsittisk glimmerskifer m/hbl. nåler og granater										

DIAMANTBORHULL nr. 62							Begynt dato :											
							Stoppet dato:											
Lokalitet :																		
(Grove)Koordinater X = Y = Z =																		
Fall : ° ' "				Diameter : mm		Målestokk 1:100												
Avstand dybde	Geologisk profil			Kjerne		Kjerneprøver												
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel tell.	Anmerknng	Borhulls avvik °	Utvinning %	Provenumer	Lengde	Analyseresultater									
									%	%	%	%	%	%				
m																		
50				Granat glimmerskifer														
55,0																		

DIAMANTBORHULL nr. 63

Begynt dato :

Stoppet dato :

Lokalitet :

(Grube)Koordinator X =

Y =

Z =

Fall :

Diameter :

mm

Målestok 1:100

Geologisk profil					Kjerne		Kjerneprøver								
Avstand dybde	Farge eller strøveling	Bergart nummer	event. symbol	Falt vinkel °	Anmerking	Borhull avvik °	Fyllning %	Prøve nummer	Løsglede	Analyseresultater					
										%	%	%	%	%	%
30					Slimmerskifer										
40															

Slinnerskifer

DIAMANTBORHULL nr. 63						Begynt dato :		Støttet dato :						
Lokalitet :														
(Grube)Koordinater X = Y = Z =														
Fyll :				Diameter :		mm		Målestokk 1:100						
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver								
	Farge eller slagvare	Bergartsbu- mer event symbol	Fyllvinn- skilleteil.	Anmerking	Borhull- dybde	Kjernelengde	Kjernenummer	Kjernetype	Analyseresultater					
									%	%	%	%	%	%
m					%	%			%	%	%	%	%	%
42.6				Amfibolitt- skifer										
50														

BORHULL nr, 116, STORMYRA.3730V - 2000N
50° met N

- 0,00 - 9,60 The core from this metrage isn't present.
- 9,60 - 21,90 The chloritic and sericitic micaschist, with quartz and with a lot of garnet (bright pink or pink colour 1 mm in average big but max. 2 mm - 3 mm). Some carbonates creat some irregular pellets, schliers or intercalations, weak only. White or white-gray quartz, creat irregular intercalations os some big positions of basement rock (breccic maybe). Thsi type of quartz, commemorate secretion quartz too. Some more, thick position of this quartz are in 13,55 m (10 cm) 13,65 m (5 cm), 14,15 - 14,40 m and 18,60 m (7 cm). This basement micaschist have biotites micas too, but not so much. The some impregnation of sulphides isn't present or is very scarce only. The structure of this rock is irregular mostly - phacoidal or phacoidal-schistose, but schistosity is clear. The total colour of this rock is bright little bit green-gray and green or green-gray on some small places where the chlorite is more present. The average gradient of foliation is round 10 m 30° and after 45°-55° about. Some foulding is present round 18 m.
Type of foulding round 18 m
- 21,90 - 28,60 The chloritic and sericitic micaschist with little bit biotite, a lot of quartz, garnets grains (pink or very bright pink, 1-2 mm in average but 3 mm scarcely too.) In some places, the amphiboles acicular crystales (small) are present too. In 21,90 - 22,10 m, 22,20 - 22,30 m, 22,70 - 22,95 m, 23,10 - 23,30 m, 23,80 - 24,30 m and in 26,50 - 26,75 m are irregular thick positions of quartz with some carbonates, pellets etc., with sericitic micaschist with more acicular crystales of amphibole and with big grains of garnet (3 mm). Into is more chlorite too. Phacoidal schistose structures clear. Some weak irregular pellets, schliers or intercalations of carbonates are present too. The mineralisation of FeS₂ is very weak only (some grains 1-2 mm in average), mostly is special positions in the basement micaschist. The total colour is bright green-gray. The average gradient of foliation is 45°-50° round.
- 28,60 - 29,45 The biotitic micaschist with sericite, chlorite and with a lot of small grains of garnet (round 1 mm in average), with a lot of parallel weak positions, intercalations, pellets etc. of carbonates and quartz too. Schistose structure is very clear. The mineralisation of the sulphides isn't present or is very scarce only. The total colour os this rock is gray and bright gray. The average gradient of foliation is 85°-90° round.
- 29,45 - 37,50 The chloritic and sericitic micaschist with biotite

as well as in 9,60 - 21,90 m. In 34,60 m (10 cm) the position of white quartz is present. The mineralisation of sulphides is very scarce only. The average gradient of foliation is 80° - 90° round.

37,50 - 38,45

The sericitic micaschist with some chlorite and biotite little bit too, with a lot of quartz and with some weak irregular intercalations, pellets etc. of carbonates. Garnet is present scarcely only. The mineralisation of sulphides isn't present. The structure is schistose little bit irregular only. The total colour of this rock is bright grey mostly. The average gradient of foliation is 85° - 90° round.

38,45 - 40,05

The sericitic micaschist with chlorite and little bit biotite too and with a lot of grains of garnet (bright pink 1 - 2 mm but 3 mm too in average). This type of rock is little bit just the same as in 9,60 - 21,90 m. The average structure is phacoidal and phacoidal schistose. Some thick positions of quartz are present too in 38,50 - 38,60 m. Some foulding is present in 38,90 m round. Type of foulding:

The average gradient of foliation is 75° - 90° round mostly.

40,05 - 49,35

The strongly calcarous chloritic and biotitic mica schist or greenschist with a lot of irregular and parallel intercalations mostly, pellets, schliers, lenticles or grains of carbonates. But quartz is strongly present too. Some very small acicular or rodlike crystales of amphibole or aktinolite are strongly present. The total colour of this rock is little bit dark green-gray. The some mineralisation of sulphides isn't present or very scarcely. The structure is irregular and parallel schistose. Some recumbent folding of dm amplitude with strong little oblique folding is present in 40,30 - 40,70 m round. The average gradient of foliation is 80° - 85° round mostly.

49,35 - 49,70

The tiny-grained and medium-grained amphibolitic greenstone with aktinolite, biotite and chlorite little bit too. Carbonates creat a lot of irregular schliers, pellets, lenticles etc. Some mineralisation of sulphides isn't present. The total colour of this rock is dark green-gray. The average gradient of foliation isn't very clear but 80° - 85° round.

49,70 - 51,30

The strongly calcarous chloritic and biotitic mica-schist or greenschist as well as in 40,05 - 49,35 m. The average gradient of foliation is 70° - 75° round.

51,30 - 51,45

The amphibolitic and chloritic greenschist with biotite and with a lot of weak irregular intercalations, schliers, pellets etc., of carbonates and with weak, parallel positions of tiny- or tender-grained amphibolitic greenstone. The

- mineralisation of sulphides isn't present or is very scarce only. The total colour of this rock is green-gray. The average gradient of foliation is 70° round.
- 51,45 - 52,60 The strongly calcareous chloritic and biotitic micaschist or greenschist as well as in 40,05 - 49,35 m. The average gradient of foliation is 45° 60° and 75° round (exchange).
- 52,60 - 52,70 The tiny-grained amphibolitic greenstone with a lot of irregular weak intercalations etc. of carbonates as well as in 49,35 - 49,70 m. The average gradient of a foliation is 80° round.
- 52,70 - 54,20 The position of white quartz (the hydrothermal vein maybe, without some mineralisation).
- 54,20 - 60,00 The tiny-grained amphibolitic greenstone, with klnozoisite and with some weak intercalations and pellets or schliers of carbonates (min. thickness is 1-2 mm, max. scarcely 2 cm). In 56,00 m is position of white-gray quartz. Some mineralisation of sulphides is very scarce in this rock. The total colour of this rock is green-gray. The average gradient of foliation is 80° round.
- 60,00 - 63,70 The strongly calcareous medium-grained amphibolitic greenstone with a lot of micas of biotite, with some chlorite, epidote, klnozoisite and with a lot of weak intercalations, pellets, schliers etc. of carbonates, but quartz too. The total colour of this rock is dark green-gray. The some mineralisation of sulphides isn't present or is very, very scarcely only. Some positions of tiny-grained amphibolitic greenstone are present too. The average gradient of foliation is 70° - 75° round.
- 63,70 - 68,10 The tiny-grained on some places tender-grained amphibolitic greenstone with a lot of intercalations etc. of carbonates as well as in 54,20 - 60,00 m. The average gradient of foliation is 75° - 80° round.
- 68,10 - 70,40 The medium-grained or coarse-grained carbonatic amphibolitic greenstone with biotite, chlorite, epidote, klnozoisite and with a lot of weak intercalations, pellets, schliers, etc. of carbonates but quartz too. Amphibole creat some rodlike or acicular crystales max. 2-5mm in average. Some positions are created by the tiny-grained amphibolitic greenstone as well as in example in 63,70 - 68,10 m. The mineralisation of sulphides is very scarce only. The total colour of this rock is dark green-gray. The average gradient of foliati are 75° - 85° round.
- 70,40 - 80,80 The tiny-grained amphibolitic greenstone as well as in 54,20 - 60,00 m. On some-places the very weak mineralisation of FeS_2 mostly is present, but scarcely only. The average gradient of foliation is 80° - 85° , but 90° too round.

80,80 - 81,10

The chloritic greenschist with quartz, carbonates, dolomite little bit too, with small acicular crystals of aktinolite and amphibole too. Carbonates create some weak parallel or irregular intercalations (max. thickness 0,5 cm). The some mineralisation of FeS is present and FeS create some very thin lenticles or scales which have been following foliation mostly. The total colour of this rock is little bit green-gray. The average gradient of foliation is 75°-80°.

81,10 - 83,35

The chloritic greenschist with aktinolite (small acicular crystals), klnozoisite, with quartz and some carbonates. Sericite, chalcomite, epidote are present very little too. Carbonates create also weak parallel or irregular intercalations, schliers pellets etc. Some mineralisation of sulphides is very scarce. FeS only create small irregular scales, which follow foliation but scarcely present only. The total colour of this rock is bright green-gray. The average gradient of the foliation is 70°-80° round.

83,35 - 84,40

The sericitic and biotitic micaschist, with klnozoisite and chlorite, but not much, with quartz and with some feldspar (not much). Garnet is present very strongly and create grains which are more big than 2 mm in average (5 mm in average too) FeS only create some irregular scales, very thin, which follow a foliation or exactly lie on foliation plates. More strongly garnet is present from 83,80 m to 84,30 m. From 84,30 - 84,40 m this micaschist cross to greenschist with more chlorite and aktinolite and without garnet. The total colour of this micaschist is gray. The average gradient of foliation is 80°-90° round.

84,40 - 86,70

The tiny-grained and tender-grained amphibolitic greenstone with a lot of weak parallel or oblique intercalations, positions or schliers etc. of carbonates. Some thin positions or intercalations of greenschist (as well as in 81,10 - 83,35 m) are present too. This some mineralisation of sulphides is very poor scarce only. The total colour of this rock is green-gray. The average gradient of foliation is 70°-80° round.

86,70 - 111,50

The motley serie, in which exchange some positions or intercalations of chloritic and or biotitic chloritic greenschist, strongly calcareous, with a lot of weak parallel, irregular intercalations, schliers, pellets etc. of carbonates. These the various types of greenschist have some intercalations of tiny-grained or tender-grained too amphibolitic greenstone, but with small thickness only. The total mineralisation of FeS only is very weak only. FeS create some irregular small and thin lenticles and more create some small also irregular scales. More strong accumulation of FeS is in 110,20 m (2 cm) only. In 108,60 - 108,70 m is position of carbonates. The total colour of this

motley serie of greenschists is green-gray or bright green-gray. The average gradient of foliation is 80° - 85° - 90° round.

111,50 - 120,10

The tiny-grained or tender-grained amphibolitic greenstone with some weak intercalations, schliers or pellets of carbonates. The mineralisation of some sulphides is very scarce only. Between 115,00 m and 115,60 m is position which is affected by some big stres. The total colour of this rock is more, gray-green. The foliation isn't clear but average gradient of foliation is 80° round.

120,10 - 123,00

The chloritic, strongly calcarcous amphibolitic greenschist with a lot of siliumcarbonates and with a lot of irregular or parallel thin intercalations or positions, schliers, pellets etc. of carbonates (max. thickness 1 cm.). The schistose structure is very clear. Some mineralisation of FeS mostly is very scarce only. The total colour of this rock is green or gray-green mostly. The average gradient of foliation is 70° - 85° round.

123,00 - 124,70

The strongly chloritic and biotitic micaschist, also very strongly calcarcous with a lot of irregular intercalations, pellets, schliers, lenticles, grains etc. of carbonates and with some veins or irregular intercalations of quartz, but very thin only. Some mineralisation of sulphides is very poor. Some small grains of FeS_2 are present somewhere only. This rock has pell-mell structure and have been bringing a clue after very strong folding. Some little bracly syndimal or bracly anticlinal closures are very good vivible on some irregular veins or intercalations of quartz. The total colour of this rock is green-gray or gray-green. The average gradient of foliation is 75° - 80° round (?)

124,70 - 153,90

The sericitic micaschist with the small micas of biotite, with a lot of grains of pink (bright pink) garnet, with quartz, little bit carbonate silicates, chlorite and eith a lot of irregular intercalations (weak only) mostly parallel, schliers, pellets etc. of carbonates. The schistose structure is very clear. Some mineralisation of sulphides isn't present or is very scarce only. The total colour of this rock is bright gray. The average gradient of foliation is 80° - 85° round. Between 138,00 - 142,00 m is this type of micaschists more strongly calcarcous and angle of dip of foliation is in this metrage 60° - 50° round, but 40° and 35° round too but after stabilisate on 80° - 85° round. In 150,00 m (4 cm) and in 153,20 m - 153,30 m are position of white quartz.

153,90 - 172,30

The strongly garnetic and biotitic micaschist as well as in 124,70 - 153,90 m but with more biotite and garnet (grains' garnet are 1-2 mm in average big max.). The mineralisation of some sulphides isn't present or is very scarce only. The total

colour of this rock is gray. The average gradient of foliation is 80° round. In 155,30 m (7 cm), 157,35 m (4 cm), 158,10 m (2 cm), 158,25 m (2 cm), 158,40 m (5 cm), 158,50 m (5 cm) are white or white-gray quartz positions.

172,30 - 176,50

The strongly carbonatic and chloritic micaschist with biotite and some carbonatesilicates. The carbonates creat parall positions (2-5 mm but 1-2 cm thickness max.) Some intercalations are created by chloritic greenschist with small acicular crystals of amphibole (weak only). Garnet is present too but very scarcely and creat some big porphyroblasts (3-5 mm in average). Some mineralisation of FeS_2 mostly are present too but very weak only. The total colour of this rock is very bright green-gray. The average gradient of foliation is 70° - 75° round. In 172,60 - 173,10 m and 175,00 - 175,60 m are positions of biotitic micaschist with garnet as well as in 153,90 - 172,30 m.

176,50 - 182,50

The sericitic and biotitic micaschist with a lot of garnet as well as in 124,70 - 153,90 m. The structure of this rock isn't parallel schistose so clear, but more phacoidal schistose or pell-mell little bit too. On some places are footprint after the some strong folding.
Type of foulds.

The average gradient of foliation is 70° - 75° mostly, but 80° and minimally 60° - 55° round too.

182,50 - 240,65

The sericitic and biotitic micaschist with more chlorite on some places with a lot of garnet and about the other as well as in 176,50 - 182,50 m. In some places are some positions (thickness 20 cm - but max. 80 cm) where is present more carbonates positions, schliers, pellets etc. and more irregular weak veins, intercalations of quartz, with little bit more big grains of garnet and with some rodlike or less acicular crystales of hornblende (1-3 mm in average big). These positions with more chlorite and with bornblende are in 182,50 m - 182,70 m, in 183,20 - 183,30 m, in 192,70 - 192,80 m, in 193,65 m (5 cm mostly quartz only), 194,10 - 194,40 m (mostly quartz and some irregular pellets and schliers which are created by biotites micas and in 222,20 - 222,35 m. This micaschist, biotitic, sericitic and chloritic has some positions (irregular of white or gray white quartz in example in 202,30 m (10 cm), 217,50 m (10 cm). Some positions or intercalations which have more chlorite, less garnet and a lot of parallel positions of carbonates (2-5 mm but 1-2 cm max. too thickness), but without amphibolitic are in 226,50 - 226,70 m in 228,10 - 228,50 m and in 236,20 - 236,40 m. In 212,10 - 212,50 m is some faulted some (core is strongly broken). The average gradient of foliation is 190,00 m 75° , 200,00 m 80° in

230 m 60° round, in 240 m about 75° round.

240,65 - 243,00

The strongly chloritic greenschist with a lot of biotite epidote, klnozoisite etc., with not much irregular very weak intercalations, pellets or schliers of carbonates. With some small crystales (acicular) of amphibole and aktinolite, without some garnet. The acumulations of biotites micas creat some irregular pellets or schliers too. The strongly faulted zones with a core which is broken are in 240,65 - 240,70 m, 242,20 - 242,70 m, 243,10 - 243,70 m. The some mineralisation of sulphides is very poor only. FeS only creat some small and irregular scales which follow basement foliation. The total colour of this rock is green gray or little bit dark green gray. The average gradient of a foliation is 70°-75° round.

243,00 - 247,10

The tiny-grained and tender-grained too amphibolitic greenstone with very small acicular crystales of hornblende and aktinolite too. Carbonates creat some very weak, mostly irregular intercalations or positions and fullfilling of little joints. Some mineralisation of sulphides is very scarce only. Some micas of biotite are present too somewhere. The total colour of this rock is gray-green. The schistose structure isn't good clear but a average gradient of foliation is 75° round.

247,10 - 250,40

The strongly calcarcous sericitic little bit biotitic micaschist with a lot of parallel mostly positions or intercalations of carbonates. The average thickness of these positions is 2-5 mm but 1-3 cm max. too. The pink or very bright pink small grains of garnet are present too but not so much. FeS mostly creat some small scales or irregular small grains, but very poor only. The total colour of this rock is bright gray. The average gradient of foliation is 80° round. In 248,90 - 249,35 m is position which is created by medium-grained or little bit coarse-grained amphibolitic greenstone, with rodlike crystales of hornblende, with a lot of micas of biotite, without systematic orientation, with some chlorite, epidote and with the other carbonatsilicates FeS creat irregular grains or some small scales, but very poor (scarcely) only. Some weak intercalations or sulphides and pellets are created by carbonates. The total colour of this rock is gray-green.

250,40 - 253,90

The biotitic amphibolitic greenschist with some intercalation of tiny-grained amphibolitic greenstone as well as in 243,00 - 247,10 m. FeS mostly creat some thin scales but scarcely only. Some weak intercalations, pellets etc. and falling of some joints are created by carbonates. The parallel schistose structure is little bit clear. The total colour of this rock is green-gray. The average gradient of foliation is 55°-65° round. In 250,80 - 251,70 m is some faulting zone. The core is broken very strongly. From 252,50 m tiny-grained amphi-

- bolitic greenstone mostly, as well as in 243,00 - 247,10 m.
- 253,90 - 254,60 The biotitic micaschist with some sericite, chlorite calcitic silicates with not so much grains of garnet and with quartz and with a lot of irregular intercalations, pellets, schliers etc. of carbonates. This rock has some footprint after strong stres. The mineralisation of sulphides isn't present or is very scarce only. The total colour of this rock is gray. The schistosity is clear but phacoidal-schistose structure mostly. The average gradient of foliation is 55°-60° round.
- 254,60 - 255,00 The tender-grained or tiny-grained amphibolitic greenstone as well as in 243,00 - 247,10 m but big footprint after strong stres.
- 255,00 - 256,00 The biotitic and sericitic micaschist with chlorite, some calcitic silicates, with quartz and with feldspar and garnet but not so much. Carbonates creat some weak irregular intercalations veins, pellets etc. and filling of little joints. The schistose structure is clear. The total colour of this rock is gray.
- 256,00 - 262,00 The biotitic micaschist with sericite, little bit chlorite too, with quartz and with a lot of grains of garnet of very bright, or white pink colour mostly (ca. 1 mm in average big). Some feldspar is somewhere present too. The mineralisation of sulphides isn't present mostly or is very scarce only. Some very weak parallel veins or irregular intercalations schliers or pellets are created by carbonates (max. thickness is 1-2 mm but 1 cm scarcely too.) The total colour of this rock is gray. The average gradient of foliation is ca. 80°-85° round.
- 262,00 - 262,30 The chloritic greenschist with little bit biotite grains of garnet, with some small and not much rodlike irregular crystales of hornblende, with quartz and small feldspar too. Some calcitic-silicates are present too. This rock is strongly calcarcous. Some grains of garnet are 2-3 mm in average big. The schistose structure isn't so clear. The total colour of this rock is bright green-gray.
- 262,30 - 264,90 The biotitic micaschist as well as in 256,00 - 262,00 m. The average gradient of foliation is 80° round.
- 264,90 - 265,35 The strongly chloritic greenschist with not so much biotite with very little acicular crystales of hornblende and aktinolite, with some calcitic-silicates, with smaller quartz and with not so much grains of garnet (2-3mm max. big in average). Some very weak irregular veins, intercalations, pellets etc. are created by carbonates. Some mineralisation of sulphides is very scarce only, but isn't present mostly. The parallel schistose

structure is little bit clear. The total colour of this rock is green-gray or little bit dark green-gray. The average gradient of foliation is 80°-85° round.

265,35 - 269,30

The biotitic and sericitic micaschist as well as in 256,00 - 262,00 m. On some places with more chlorite and with some weak irregular positions of white or gray-white quartz. The average gradient of foliation is 70°-80° round.

269,30 - 269,65

The sericitic rock with quartz, little bit feldspar, with few biotite, with not so much little acicular or rodlike crystales of amphibolite, with not so much grains of garnet, with few chlorite. This rock little bit remind some type of keratophyre. The schistose structure isn't so clear. The total colour of this rock is white gray or gray-white.

269,65 - 272,50

The biotitic and sericitic micaschist as well as in 256,00 - 262,00 m. The average gradient of a foliation is 75°-80° round.

272,50 - 272,65

The strongly chloritic greenschist the same as ins 264,90 - 265,35 m.

272,65 - 288,55

The biotitic and sericitic micaschist the same as in 256,00 - 262,00 m. The average gradient of foliation is 80°-85° round.

288,55 - 288,90

The sericitic rock which remaind some type of keratophyre the same as in 269,30 - 269,65 m with some irregular positions of dolomite mostly with some quartz, chlorite and with some scales of FeS, but very poor only. The some schistosity isn't so clear. The total colour of this rock is gray-white.

288,90 - 293,70

The biotitic and sericitic micaschist as well as in 256,00 - 262,00 m. The average gradient of foliation is 80° round.

293,70 - 294,10

The position of medium-grained or little bit coarse-grained amphibolitic greenstone, with a lot of micas of biotite and deferitication biotite with a lot of rodlike small crystales of hornblende, with some chlorite and calciticsilicates with some quartz and with a lot of irregular weak intercalations, schliers, pellets etc. of carbonates. This rock is very strongly calcarcous. Some various between greenstone and greenschist are little bit present too. Some mineralisation of sulphides is very scarce only. The schistosity isn't clear. The total colour of this rock is dark green-gray.

294,10 - 299,20

The biotitic and sericitic micaschist with some more chlorite and grains of garnet but for the other just the same as in 256,00 - 262,00 m. The average gradient of foliation is 80°-85° round.

In 295,00 m is 7 cm position of white quartz.

299,20 - 299,45

The biotitic micaschist with sericite and chlorite, with some rodlike crystales of hornblende, with some grains of garnet and with some parallel positions or intercalations of graphitic schist, which are little bit disharmonic folding mostly. This part is total folding.

The type of folding.

In graphitic schist is present some poor impregnation of FeS only. The schistose structure is clear. The total colour of this rock is gray. The average gradient of foliation exchange 50° - 60° on both side and 70° - 75° round after.

299,45 - 299,90

The biotitic and sericitic micaschist as well as 256,00 - 262,00 m. The average gradient of a foliation is 65° - 70° round.

299,90 - 300,40

The sericitic and biotitic micaschist with chlorite not much garnet, with quartz, with some weak intercalations, schliers or pellets of carbonates and with a lot of positions or intercalations (parallel) of graphitic schliers (2-5 mm but 1-1,5 cm max. thickness too). Some poor impregnation of FeS only is in graphitic schliers intercalations only. FeS creat some irregular scales, which follow foliation. The schistose structure is very clear. The total colour of this rock is gray or little bit dark gray too. The average gradient of foliation is 60° - 65° round.

300,40 - 303,20

The chloritic and biotitic micaschist with garnet quartz, some calciticsilicates, with a lot of schliers, pellets or weak intercalations of carbonates, with some small rodlike crystales of amphibole with weak intercalations (parallel) of graphitic schist and green schist too, but not so much. Some mineralisation of FeS only, very poor is in some graphitic weak intercalations. Schistose structure is on some places clear but on the other not so much. The total colour os this rock is gray. The average gradient of foliation is 70° round. In 301,20 m is position of white quartz 7 cm.

303,20 - 304,80

The sericitic and biotitic micaschist with a lot of parallel positions or intercalations of graphitic schist with FeS impregnation into as well as in 299,90 - 300,40 m. The average gradient of foliation is 80° - 65° round.

304,80 - 305,90

The biotitic and sericitic micaschist with a lot of grains of garnet, with calaticsilicates with some weak irregular intercalations, schliers, pellets or grains of carbonates, and with quartz.

All the grains of minerales are little bit more coarse. The schistose structure is very clear. The total colour of this rock is gray. The average gradient of foliation is 60° - 65° round. The some mineralisation of the sulphides isn't present or is very scarce only.

305,90 - 310,00

The biotitic and sericitic micaschist as well as in 256,00 - 262,00 m. The average gradient of a foliation 60° - 65° round.

310,00 - 314,70

The medium-grained, but on some places coarse grained amphibolitic greenstone, strongly calcareous, with rodlike crystales of hornblende, with calciticsilicates, with biotite (somewhere very strongly) and with a lot of schliers, pellets, lenticles or irregular intercalations of carbonates, which have often many inclusions, which are created micas of biotite. The mineralisation of the sulphides is very scarce only. The some schistosity isn't clear. This rock is mostly compact. The total colour of this rock is green-gray or dark green and dark green-gray too.

314,70 - 315,40

The biotitic, strongly calcareous greenschist with small rodlike crystales of amphibole, with chlorite calciticsilicates and with a lot of irregular intercalations, pellets, schliers, lenticles etc. of carbonates, and with much quartz. Some mineralisation of the sulphides isn't present or is very scarce only. The schistose structure is clear only little bit. The total colour of this rock is bright green-gray.

315,40 - 316,50

The coarse-grained or medium-grained amphibolitic greenstone as well as in 310,00 - 314,70 m.

316,50 - 316,80

The strongly biotitic, coarse-grained or medium-grained amphibolitic greenschist, strongly calcareous too, with some very weak intercalations of carbonates. Chlorite, quartz calciticsilicates are present too. Some mineralisation of the sulphides is very scarce only. The schistosity is clear but not so much. The total colour of this rock is dark green-gray.

316,80 - 366,90

The biotitic and sericitic micaschist as well as in 256,00 - 262,00 m. Between 318,50 - 319,20 m some intercalations of a graphitic schist are present as well as in 300,40 - 303,20 m. In 320,80 m (5 cm), in 323,70 m (5 cm) the position of white quartz are present. The average gradient of foliation is 80° - 90° round. In 340,20 m (5 cm) white-gray quartz. In some places more chlorite is present in basementic rock. In 347,10 m is some intercalation of greenschist with more chlorite and with some small rodlike crystales of amphibole. This type of rock is disharmonic folding. The some irregular intercalations or veins of quartz are present too.

- 366,95 - 367,25 The coarse-grained amphibolitic greenstone with rodlike crystales of hornblende with big grains of garnet (max. 5 mm in average big, but more too) and with not much micas of biotite too. Carbonates and quartz mostly creat parallel and irregular weak intercalations of schliers etc. On the both boundaries of this greenstone is amphibolitic greenschist with parallel intercalations of quartz with big grains of garnet and with chlorite. The some mineralisation of the sulphides isn't present. The total colour of this rock is green-gray and dark green-gray too. The average gradient of a foliation is 60°-65° round.
- 367,25 - 373,80 The biotitic and sericitic micaschist as well as in 256,00 - 262,00 m, but with more big grains of garnet. In 374,40 m the weak intercalation (2 cm) of graphitic schist are present, but with very poor impregnation of graphite and with very weak impregnation of FeS only (some weak scales). The average gradient of a foliation is 75°-90° round mostly.
- 373,80 - 374,25 The coarse-grained amphibolitic greenstone as well as in 366,95 - 367,25 m.
- 374,25 - 375,60 The biotitic and sericitic micaschist as well as in 367,25 m - 373,80 m.
- 375,60 - 375,75 The coarse-grained amphibolitic greenstone the same as in 366,95 - 367,25 m.
- 375,75 - 376,90 The biotitic and sericitic micaschist the same as in 367,25 - 373,80 m.
- 376,90 - 377,25 The coarse-grained amphibolitic greenstone as well as in 366,95 - 367,25 m.
- 377,25 - 377,60 The biotitic and sericitic micaschist the same as 367,25 - 373,80 m with very big grains of garnet (max. 1 cm. big in average).
- 377,60 - 377,70 The position of white quartz.
- 377,70 - 378,30 The coarse-grained amphibolitic greenstone as well as in 366,95 - 367,25 m.
- 378,30 - 378,60 The biotitic and sericitic micaschist the same as in 367,25 - 373,80 m.
- 378,60 - 379,25 The coarse-grained amphibolitic greenstone as well as in 366,95 - 367,25 m. In 378,80 m round the position of white quartz is present.

379,25 - 387,60

The biotitic and sericitic micaschist the same as in 256,00 - 262,00 m. In 382,70 m round the some very weak intercalations (parallel) of graphitic schist are present but with very poor impregnation of C. The average gradient of foliation is 80° - 90° round mostly.

387,60 - 388,00

The medium-grained and coarse-grained amphibolitic greenstone as well as in 366,95 - 367,25 m.

388,00 - 397,10

The biotitic and sericitic micaschist with a lot of garnet as well as in 256,00 - 262,00 m. The average gradient of foliation is 75° - 85° round.

397,10 - 397,60

The chloritic and biotitic greenschist with the small rodlike crystals of hornblende, with a lot of grains of garnet and with much intercalations or schliers of carbonates and of quartz more. The schistosity is very clear. Some mineralisation of the sulphides is very scarce only. The total colour of this rock is bright green-gray. The average gradient of foliation is 80° - 75° round.

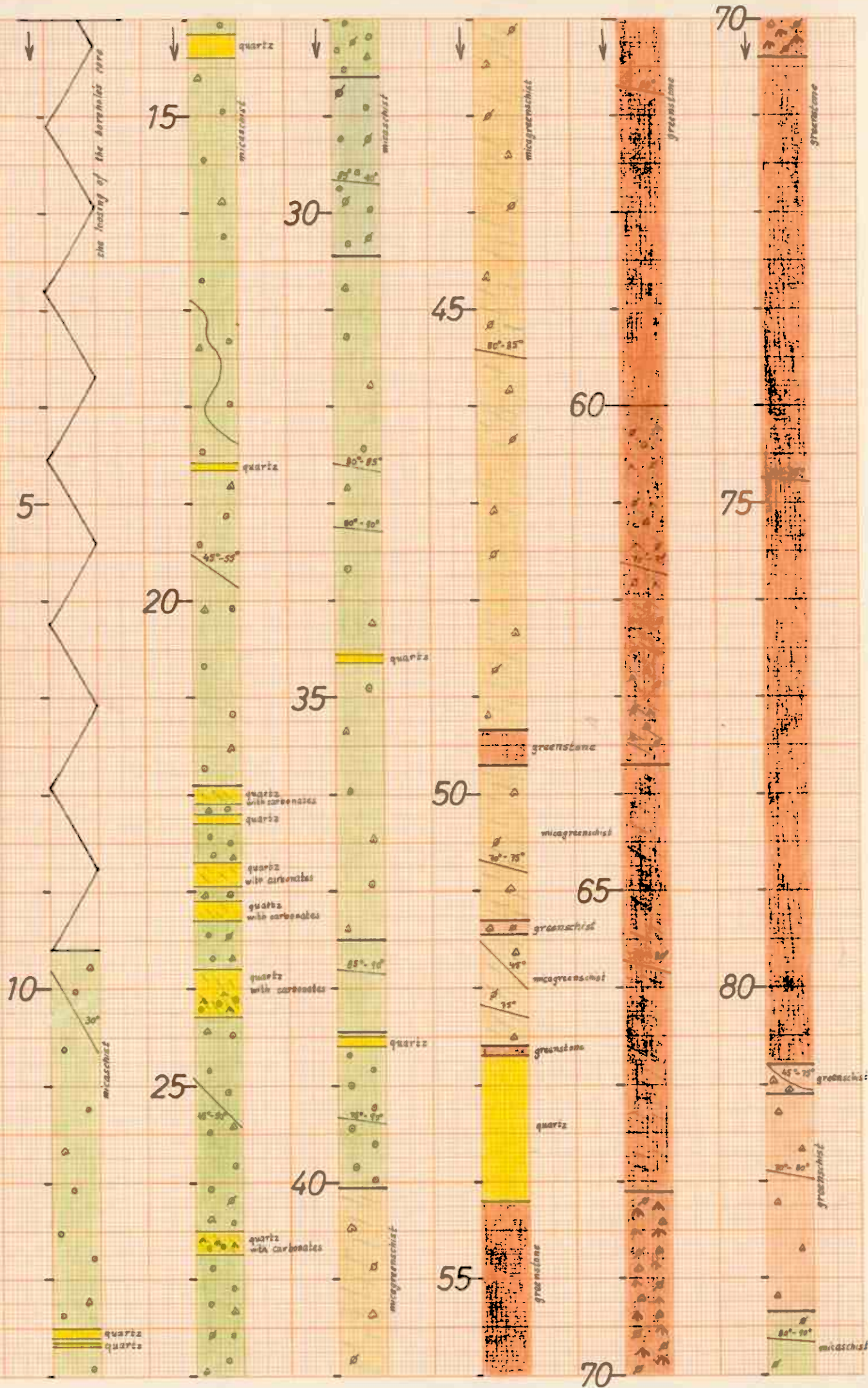
397,60 - 419,78

The biotitic and sericitic micaschist with a lot of grains of garnet and on some places with more chlorite but for the other just the same as in 256,00 - 262,00 m. In 405,50 - 405,65 m is position of medium-grained or coarse-grained amphibolitic greenstone as well as in 366,95 - 367,25 m. In 406,30 m is position of white quartz 10 cm. In 404,20 - 404,60 m, in 406,30 - 406,60 m and in 413,00 - 416,00 m are the footprints after folding. The average gradient of foliation is 75° - 85° round mostly, but in places where are clear the footprints after folding is the gradient of incline of foliation very different.

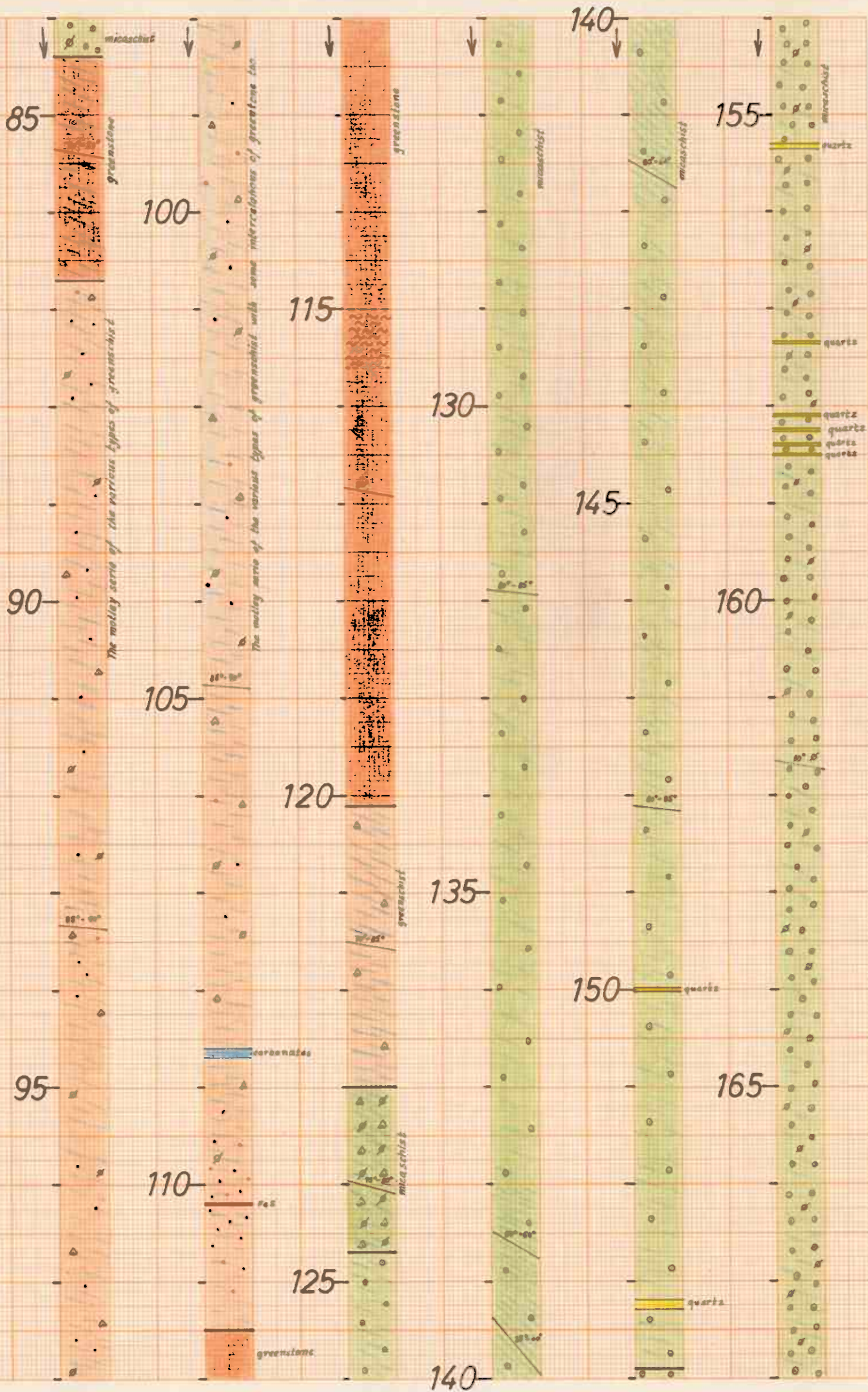
The borehole no. 116 (Stormyra) was finished in 419,78 m.

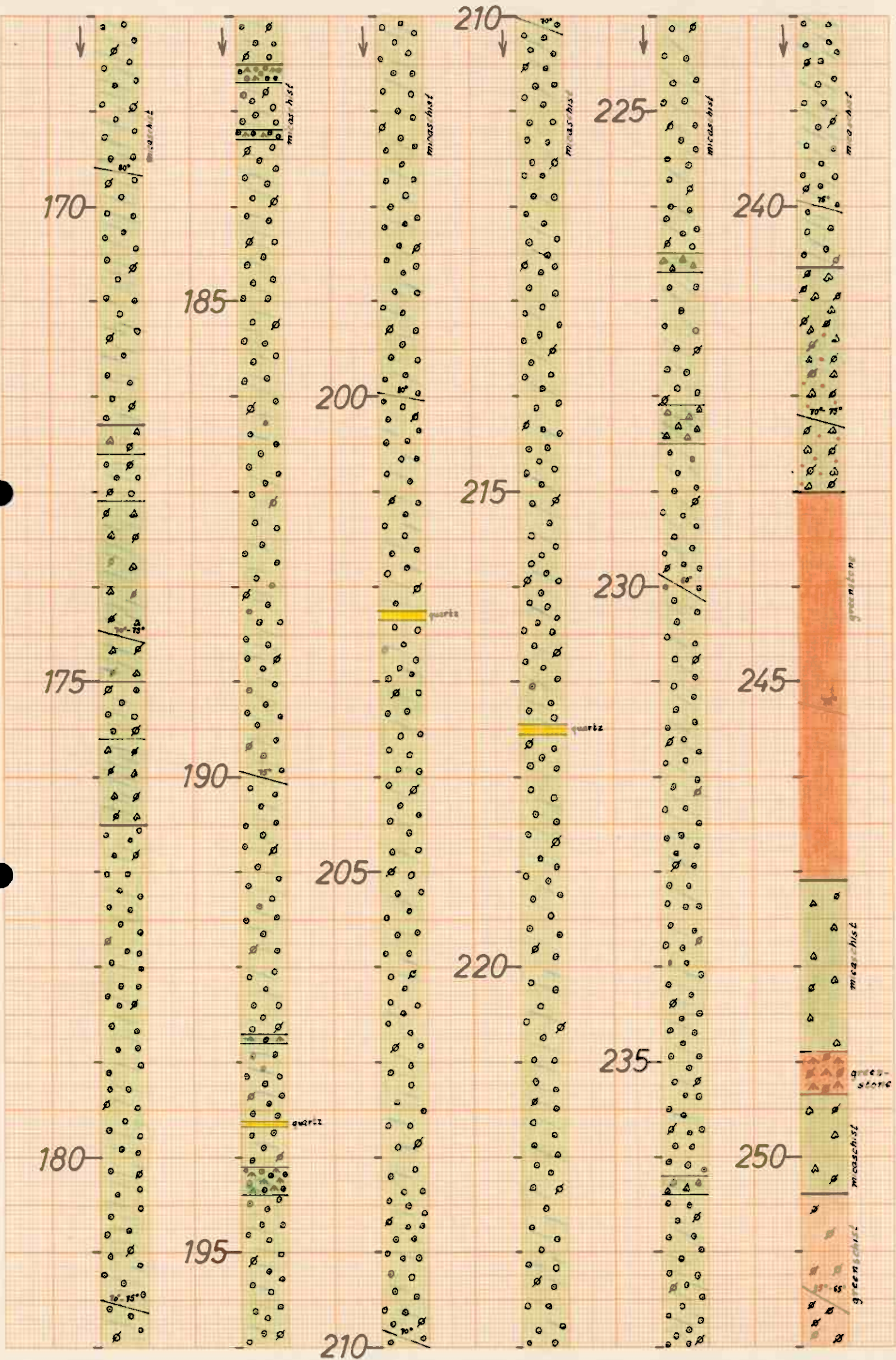
(M. Motys).

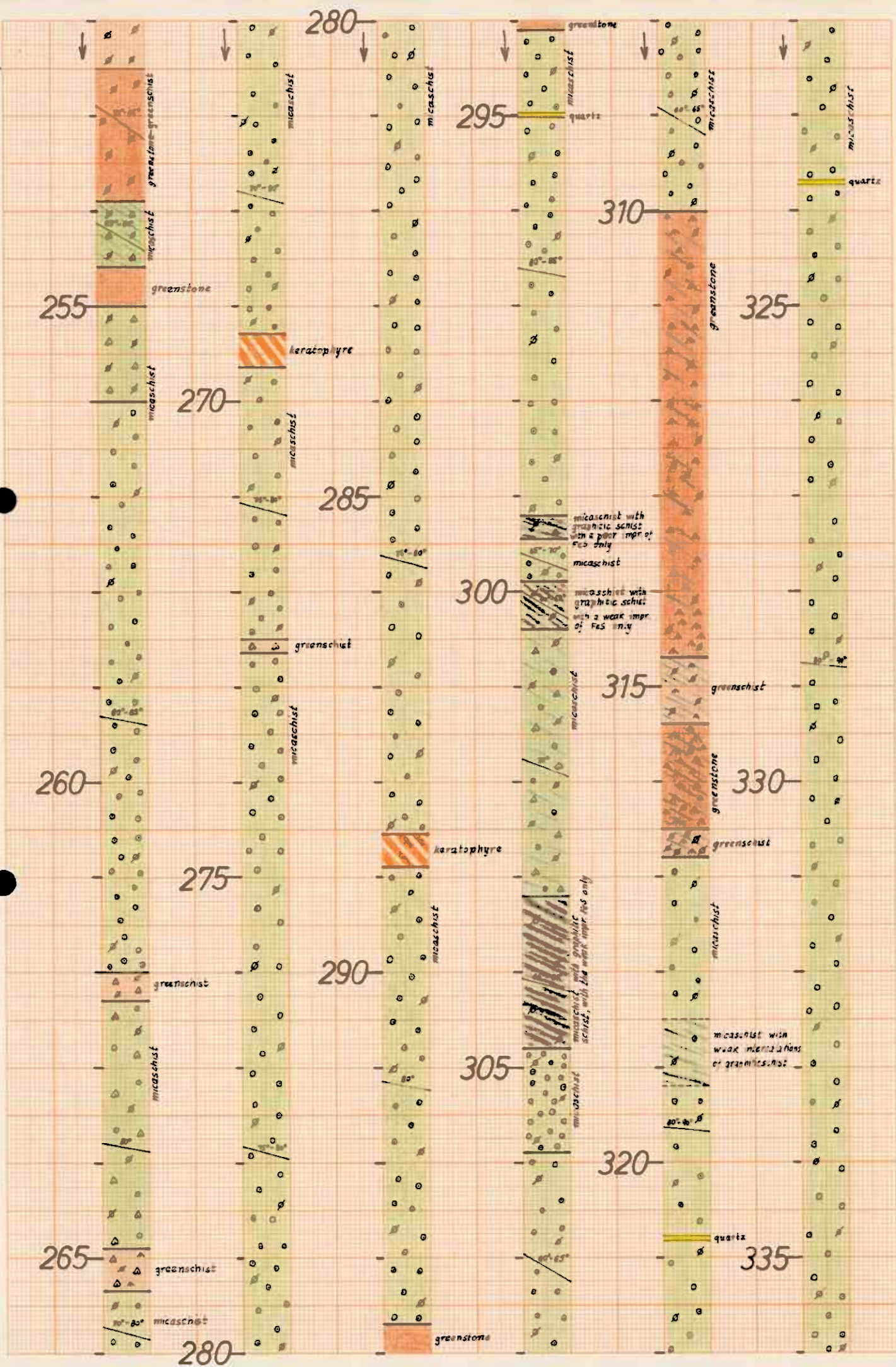
THE PROPHILE OF BOREHOLE NUMBER 116.

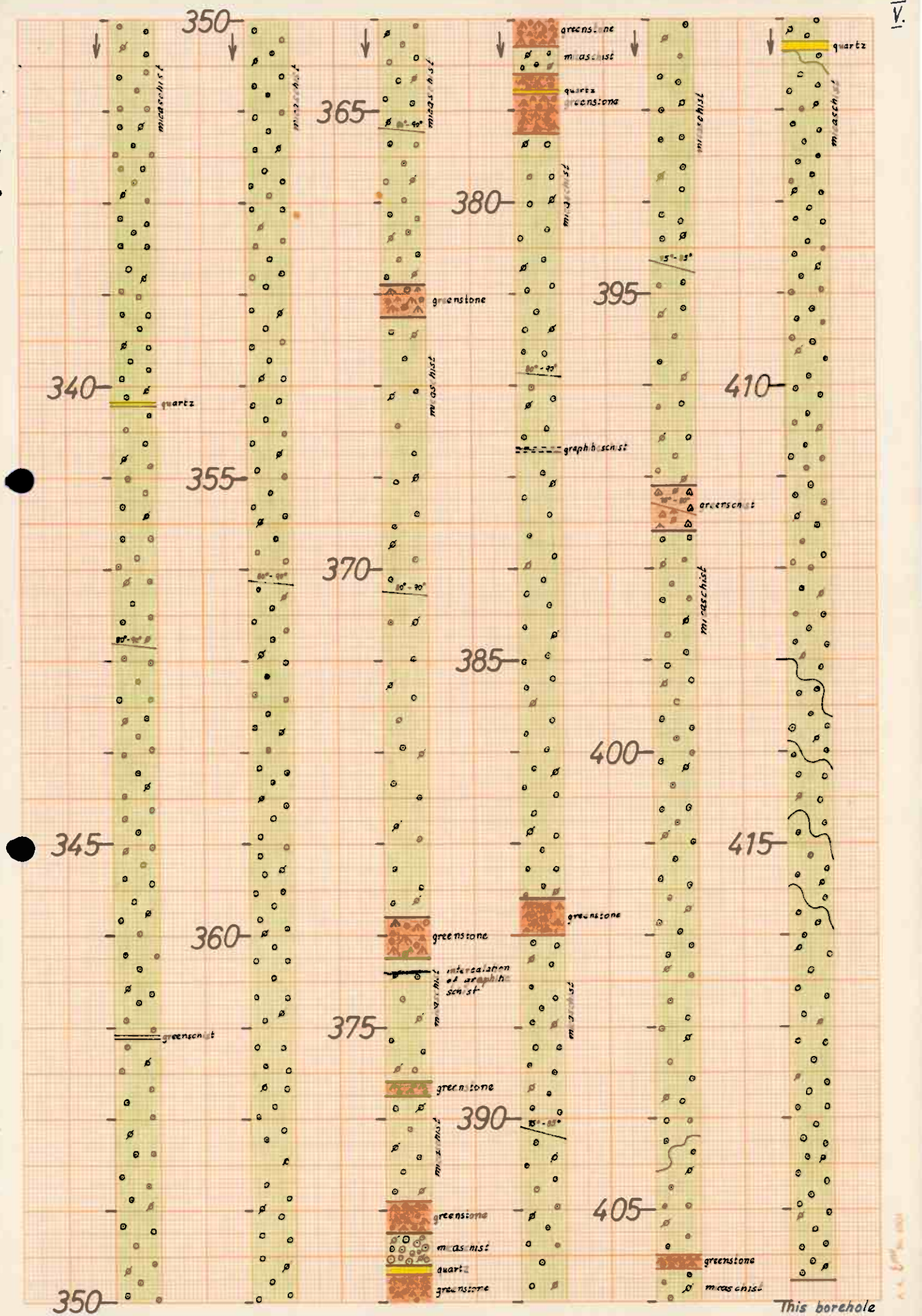


THE CONTINUATION OF BOREHOLE NR. 116.



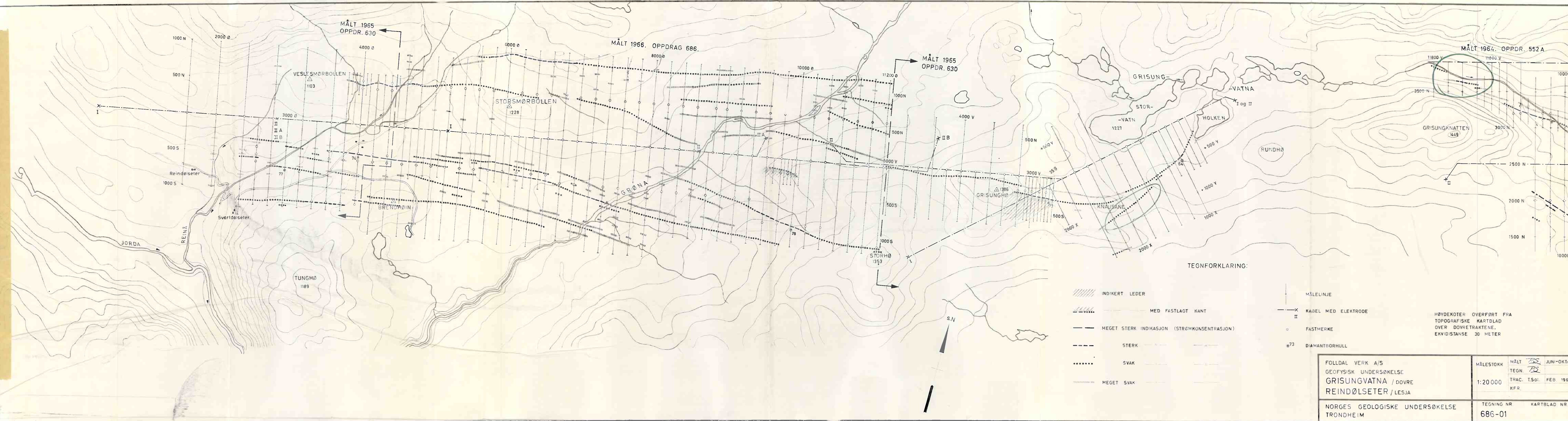






This borehole
was finished at 419,78m

RENJOLSETER



DIAMANTBORHULL nr. 64						Begynt dato :									
						Stoppet dato:		10. 65							
Lokalitet : <i>Grisungvatna</i>															
(Gruve) Koordinater <i>X = 1000</i> <i>Y = 510</i> <i>Z =</i>															
Fall : <i>50</i> ° ' "					Diameter : <i>46 mm</i>		Målestokk <i>1:100</i>								
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprover									
	Farge eller graving	Bergartsnu- mer event symbol	Fallvin- kel foli.	Anmerknng	Borhulls avvik	Utvinning	Provenumet	Lengde	Analyseresultater						
									%	%	%	%	%	%	
<i>0</i>				<i>Amfibolitt- -skifer m/sv. impl. FeS_2</i>											
				<i>Tett amfibol- -ittisk skifer</i>											
<i>10</i>				<i>Kvartsittisk amfibolitt- -skifer</i>											
				<i>Tett amfi- -bolittisk skifer, delvis kvartsittisk</i>											
<i>20</i>															

DIAMANTBORHULL nr. 64										Begynt dato :					
										Stoppet dato:					
Lokalitet :															
(Grube)Koordinater X = Y = Z =															
Fall :										Diameter :		mm		Målestokk 1:100	
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver								
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foli.	Anmerknng	Borhulls avvik	Utvinning	Provennummer	Lengde	Analyseresultater						
									%	%	%	%	%	%	
m					°	%			%	%	%	%	%	%	
30				Grafitskifer ; amfibolitt.											
40				Tett kvartsittisk amfibolittskifer											

DIAMANTBORHULL nr. 64

Begynt dato :

Stoppet dato:

Lokalitet :

(Grove) Koordinater X =

Y =

Z =

Fall :

Diameter :

mm

Målestokk 1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foli.	Anmerknng	Borhulls avvik	Utvinning	Provenumer	Lengde	Analyseresultater					
					°	%								
m									%	%	%	%	%	%
				Kvartsitt — Grafit-skifer, spesielt ved 42-43 m svak impl. av FeS_2 og $CaFeS_2$ —										
50				Mørk, tett kvartsitt —										
55,75														
60														

DIAMANTBORHULL nr. 73						Begynt dato : Stoppet dato: 10.65								
Lokalitet : <i>Grisungvatna</i>														
(Grube)Koordinater $\# = 2750 V$ $\# = 330 S$ $Z =$														
Fall : 50 ° ' "						Diameter : 46 mm			Målestokk 1:100					
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel f.lli.	Anmerknng	Borhulls avvik °	Jivinning %	Provenumer	Lengde	Analyseresultater					
									%	%	%	%	%	%
3														
10				<i>Amfibolitt- - skifer</i>										
20				<i>Amfibolitt- - skifer m/lit. biotitt</i>										

DIAMANTBORHULL nr. 73										Begynt dato :				
										Stoppet dato:				
Lokalitet :														
(Gruve)Koordinater X = Y = Z =														
Fall :						Diameter :		mm		Målestokk 1:100				
Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver							
	Farge eller kravering	Bergartsnu- mer event symbol	Fallvin- kel foll.	Anmerkning	Borhulls avvik	Jtvinning	Provenumer	Lengde	Analyseresultater					
									%	%	%	%	%	%
m					%	%								
				Amfibolitt - - skifer m/ granater										
				Glimmer - - skifer										
				Tett amfibolitt - - skifer										
30				Kjerne mangler										
				Amfibolitt - - skifer m/ granater										
40														

DIAMANTBORHULL nr. 73

Begynt dato :

Stoppet dato:

Lokalitet :

(Grube)Koordinater X =

Y =

Z =

Fall :

Diameter :

mm

Målestokk

1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprover							
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel f.lli.	Anmerknng	Borhulls avvik	Utvinning	Provennummer	Lengde	Analyseresultater					
m					°	%			%	%	%	%	%	%
50				impl. Fe S Fe S Amf. bolitt- -skifer og amf. bolitt m/granater										
60				Glimmer- -skifer m/granater										

DIAMANTBORHULL nr. 73

Begynt dato :

Stoppet dato :

Lokalitet :

(Grove)Koordinater X =

Y =

Z =

Fall :

Diameter :

mm

Målestokk

1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprover							
	Farge eller skrapering	Bergartsmu- ner event symbol	Fallvin- kel tell.	Anmerking	Borhull's avvik	Tilvinning	Provenient	Lengde	Analyseresultater					
m			°		°	%			%	%	%	%	%	%
62.7m				—										

DIAMANTBORHULL nr. 74						Begynt dato :												
						Stoppet dato :												
Lokalitet :																		
(Grave)Koordinater X =						Y =		Z =										
Fall : ° ' "						Diameter : mm		Målestokk 1:100										
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprover												
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foli.	Anmerkning	Borhulls avvik °	Utvinning %	Provenumer	Lengde	Analyseresultater									
									%	%	%	%	%	%				
30				Blåkvarts														
				Grønn amfibolittisk skifer														
				Mørk, klastittisk amfibolittiskifer														
				Bitumios skifer														
				Grafitiskifer														
				Glimmerskifer, klastittisk														
				Biotittiskifer														
				Grafitiskifer														
				Glimmerskifer														
36.3																		

DIAMANTBORHULL nr. 77

Begynt dato :

Stoppet dato: 8.66

Lokalitet : Reindöseter

(Grave) Koordinater $X = 3000$ $Y = 7005$ $Z =$

Fall : 50 ° ' "

Diameter : mm

Målestokk 1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver								
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel tell.	Anmerknng	Borhulls avvik °	Utvinning %	Provennummer	Lengde	Analyseresultater						
									%	%	%	%	%	%	
3					°	%									
				Glimmerskifer m/ granater											
				Kvartsittisk glimmerskifer											
				Glimmerskifer m/ granater											
				Kvartsitt											
10				Glimmerskifer											
				Grønnstein											
				Glimmerskifer m/ granater											
20				Glimmerskifer biotit/kloritt											

The borehole no. 77, REINDØLSETER.

The petrografical description.

0,00 - 4,30

The biotitic, sericitic micaschist with some zoisit-epidote and scarcely with chlorite, with not much small grains of bright pink garnet. The micas of biotite are very small too. Some very scarce impregnation of FeS_2 mostly are present and some mostly microscopic impregnation of Fe_3O_4 is present scarce too. Quartz creat some little veins, little intercalations or schliers, which follow this basement foliation. The schistosity structure is clear and locally only little bit cross too a phacoidal schistose. The average gradient of this foliation is 65° round.

4,30 - 6,60

The strongly quartzzy, sericitic and chloritic mica-schist, with not much zoisit-epidote and with some very small grains of pink garnet, but mostly this rock commemorate sericitic and chloritic quartzite with some little intercalations of chloritic, sericitic micaschist with some zoisit-epidote and with garnet. The schistose and more phacoidal schistose structure is clear. The total colour of this rock is bright gray or bright little bit green-gray. The average gradient of this foliation is 65° round.

6,60 - 11,25

The biotitic and sericitic micaschist as well as in 0,00 - 4,30 m. The average gradient of this foliation is 70° round. Locally this rock has a recumbent folding. Between 9,00 - 9,25 m is present position of gray quartzite with a 2 cm thickness carbonatic intercalations in 9,00 m, but without some impregnation of ore minerales.

11,25 - 13,70

The biotitic and sericitic micaschist with a lot of very small grains of garnet and with some very small (mostly microscopic) impregnation of Fe_3O_4 . The impregnation of sulphides isn't present mostly. Quartz creat not so much very little veins or little intercalations or schliers and pellets. The schistose structure is clear. The total colour of this rock is dark gray or little bit green dar gray. The average gradient of this foliation is 75° round.

13,70 - 16,00

The tender-grained and tiny-grained chloritic and epidotic or zoisite-epidotic greenstone, with not much very little acicular crystales of aktinolite and hornblende. Quartz creat not much little intercalations or schliers and pellets. The impregnation of some ore minerales (sulphides) is very scarce only. The structure is more phacoidal or phacoidal schistose. The total colour of this rock is green or gray-green. The average gradient of this foliation is 75° round.

16,00 - 18,40

The strongly sericitic and not so much chloritic mica-schist with some very small grains of garnet,

with some microscopic impregnation of Fe_3O_4 , but very poor only and with some acicular very small crystals of aktinolite. Quartz creat little intercalations, schliers or pellets, which follow schistosity of this rock. The impregnation of sulphides isn't present mostly. The total colour of this rock is bright little green gray. The average gradient of this foliation is 80° round.

18,40 - 20,20

The strongly biotitic and chloritic micaschist as well as in 11,25 - 13,70 m. The average gradient of this foliation is 75° - 80° round. Between 18,50 - 18,65 m is position with more biotite and with some schliers and pellets of quartz and carbonates too.

20,20 - 25,25

The white-gray or blue white-gray quartzite with very, very poor impregnation of some very small grains of FeS_2 or scales of FeS and with very poor microscopic impregnation of Fe_3O_4 . Some very strong impregnation or homogenitic irregular positions of FeS mostly are present in 23,20 m (1 cm), in 23,40 - 23,50 m, in 23,55 - 23,65 m and in 25,25 m (1,5 cm). The some schistosity isn't so clear in this quartzite.

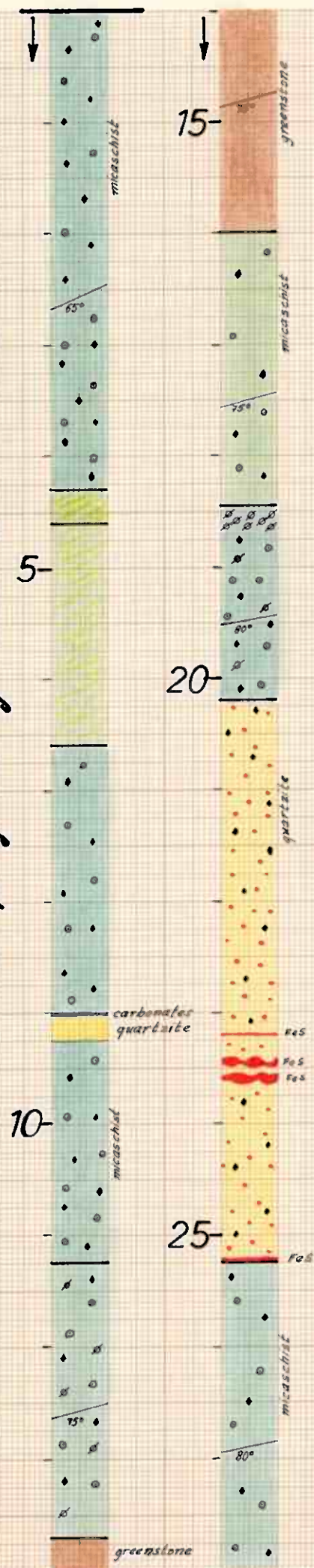
25,25 - 28,15

The sericitic-biotitic micaschist with some chlorite and some zoisit epidote and with not much very small little grains of garnet. Quartz creat not much very little intercalations or little veins, pellets or schliers. The same impregnation of sulphides isn't present mostly. Some microscopic impregnation of ~~FeX~~ Fe_3O_4 , very, very poor only is present perhaps locally only. The parallel schistose structure is very clear. The total colour of this rock is bright gray. The average gradient of this foliation is 80° round.

This borehole no. 77 was finished at 28,15 m.

(M. Motys).

The profile of the Borehole nr. 77.



This Borehole nr. 77
was finished at 28,15 m.

DIAMANTBORHULL nr. 78

Begynt dato :

Stoppet dato: 8.66

Lokalitet : Reindölseter

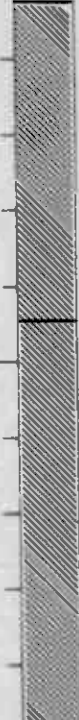
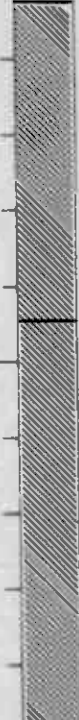
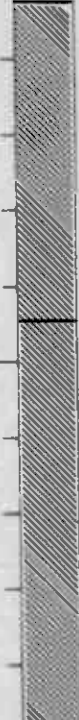
(Gruve)Koordinater $X = 10000$ $Y = 9525$ $Z =$

Fall : 50°

Diameter : mm

Målestokk 1:100

Avstand Dybde	Geologisk profil				Kjerne		Kjerneprøver										
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel foli.	Anmerkning	Borhulls avvik	Utvinning	Prøvenumer	Lengde	Analyseresultater								
					°	%			%	%	%	%	%	%	%	%	
3																	
				Grønnsten													
				<u>Kvartsitt</u>													
				<u>Glimmerskifer</u>													
				<u>Kvartsitt</u>													
10				Amfibolittisk grønnsten													
				<u>Glimmerskifer</u>													
				Grønnstein													
20																	

DIAMANTBORHULL nr. 78						Begynt dato :																																																																																																							
						Stoppet dato:																																																																																																							
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Fall :				Diameter :		Målestokk 1:100																																																																																																							
<table border="1"> <thead> <tr> <th rowspan="3">Avstand Dybde</th> <th colspan="3">Geologisk profil</th> <th colspan="2">Kjerne</th> <th colspan="6">Kjerneprøver</th> </tr> <tr> <th rowspan="2">Farge eller skravering</th> <th rowspan="2">Bergartsnu- mer event symbol</th> <th rowspan="2">Fallvinn- kel foli.</th> <th rowspan="2">Anmerkning</th> <th rowspan="2">Borhulls avvik</th> <th rowspan="2">Ftvinning</th> <th rowspan="2">Provenumer</th> <th rowspan="2">Lengde</th> <th colspan="6">Analyseresultater</th> </tr> <tr> <th>%</th> <th>%</th> <th>%</th> <th>%</th> <th>%</th> <th>%</th> </tr> </thead> <tbody> <tr> <td rowspan="5">30</td> <td rowspan="5"></td> <td rowspan="5"></td> <td rowspan="5"></td> <td>Grønnsten</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Glimmerskifer m/striper av grafitskifer</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Kvartsitt</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Grønnskifer</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Grønnsten</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver						Farge eller skravering	Bergartsnu- mer event symbol	Fallvinn- kel foli.	Anmerkning	Borhulls avvik	Ftvinning	Provenumer	Lengde	Analyseresultater						%	%	%	%	%	%	30				Grønnsten											Glimmerskifer m/striper av grafitskifer										Kvartsitt										Grønnskifer										Grønnsten										40														
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver																																																																																																							
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvinn- kel foli.	Anmerkning	Borhulls avvik	Ftvinning	Provenumer		Lengde	Analyseresultater																																																																																																			
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DIAMANTBORHULL nr. 78						Begynt dato :								
						Stoppet dato:								
Lokalitet :														
(Grube)Koordinater X =						Y =								
Z =														
Fall : ° ' "				Diameter : mm		Målestokk 1:100								
Avstand Dybde	Geologisk profil			Kjerne		Kjerneprøver								
	Farge eller skravering	Bergartsnu- mer event symbol	Fallvin- kel f.lli.	Anmerking	Borhulls avvik °	Utvinning %	Provenumer	Lengde	Analyseresultater					
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m														
				Grønnstein										
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BORHULL NR. 78 (REINDØLSETER).

0,00 - 2,80

The coarse-grained amphibolitic greenstone, strongly quartzzy, with zoisit-epidote and with a lot of rodlike or acicular grystales of hornblende. The quartz and not much quartz albite, matter is infiltrated mostly, with a very few some spots or little pellets of carbonates. Quartz creat a lot of little veins, little intercalations or some schliers which are parallel with foliation. The total structure is irregular porphyroblastic and porphyroblastoophytic, but with some little bit clear schistosity. The total colour of this rock is bright gray-green or gray-green. The average gradient of this foliation is 35° round. The impregnation of sulphides isn't present mostly. In 1,30 m, 160 m and in 1,80 m round are some joints (tectonic) zones, which desailed by some cold wather-solutions and which have every where some limonitic covers.

2,80 - 3,80

The white and white-gray sericitic quartzite (sericite covers on foliation plates), with very fewly chlorite or zoisit-epidote, locally only and with some microscopic impregnation of FeS_2 and Fe_3O_4 , but rather scarcely only. Biotite is present fewly too, but locally only. The structure is bed-schistose. The average gradient of schistosity is 60° - 65° round. In this rock present a lot of feldspar, therefore this rock is more keratophyre.

3,80 - 4,35

The sericite and chloritic phyllitic-micaschist with quartz like fundamention minerale of this rock, which creat very little veins or very little intercalations or some small schliers or pellets. The some impregnation of sulphides isn't present mostly. Some little grains of Fe_3O_4 are present very scarcely only somewhere. The schistose structure is very clear. This rock has a folding, mostly the recumbent folding, but in cm amplitude only. The total colour of this rock is very bright and bright green-gray or gray. The average gradient of this foliation is 50° and 60° round.

4,35 - 5,40

The white and white-gray sericitic quartzite as well as in 2,80 - 3,80 m, also more comemorate keratophyre. Thsi type has little bit more very small micas of biotite. The average gradient of this foliation is 55° round.

5,40 - 14,30

The tiny-grained or tender-grained amphibolitic greenstone, with some intercalations of amphibolitic and little bit chloritic or epidotic, amphibolitic greenschist. Quartz creat a lot of little veins or little intercalations, mostly parallel with the total schistosity. The schistose structure is very clear. The impregnation of sulphides isn't present mostly, but some poor impregnation of small grains of Fe_3O_4 is clear. Locally carbonates creat

some weak intercalations (but rather scarce and 1 cm max. thickness only). The total colour of this rock is gray green. The average gradient of this foliation is 30° - 35° round. Between 6,70 - 7,00 m is present position of medium-grained and little bit coarse-grained amphibolitic greenstone as well as in 0,00 - 2,80 m, which has locally a lot of small grains of pink garnet and which has strong leaching by cold water and which has everywhere some limonitic covers. The impregnation of ore-minerals isn't present mostly. Between 8,90 - 9,20 m and between 10,80 - 11,40 m are positions of medium-grained and little bit coarse-grained amphibolitic greenstone as well as in 0,00 - 2,80 m.

14,30 - 15,40

The coarse-grained, strongly quartz amphibolitic greenstone as well as in 0,00 - 2,80 m. The average gradient of this foliation is 60° - 65° round.

15,40 - 20,40

The motley serie of the medium-grained and little bit coarse-grained amphibolitic greenstone as well as in 0,00 - 2,80 m, but with some intercalations of the tiny-grained and tender-grained amphibolitic greenstone, with clear schistose structure as well as in 5,40 - 14,30 m. Between 15,50 - 15,80 m is present some intercalations (position) of the sericitic and chloritic, phylitic micaschist with some poor impregnation of Fe_3O_4 the same as in 3,80 - 4,35 m, but with little bit more micas of biotite. The average gradient of the foliation of this motley serie is 55° - 60° round.

20,40 - 21,50

The tiny-grained, biotitic and little bit chloritic amphibolitic greenstone with a lot of little veins and very little intercalations and schliers of quartz, which are parallel with the total schistosity. The schistose structure is very clear. The some impregnation of some ore minerals isn't present mostly, but locally only are present some very little grains of FeS_2 or some microscopic impregnation of Fe_3O_4 (very scarce only too). From the other minerals are present zoisite-epidote and aktinolit and some spots or very little pellets of carbonates, but rather rare only. The total colour of this rock is green-gray and gray-green. The average gradient of this foliation is 60° round.

21,50 - 23,50

The motley serie, in which exchange the positions of biotitic and little bit chloritic micaschist with a lot of little vein or very little intercalations of quartz, with some spots or pellets of carbonates or (feldspar?) the intercalations of tiny-grained amphibolitic greenstone as well as in 20,40 - 21,50 m and the medium-grained or little bit coarse-grained amphibolitic greenstone the same type as in 0,00 - 2,80 m. The total mineralization of some ore minerals isn't present mostly in this motley serie of rock. The schistose structure is clear. The average gradient of this foliation is 65° - 70° round.

23,50 - 24,70

The biotitic and sericitic micaschist with not so much chlorite or zoisit epidote and with a lot of very little veins, very little intercalations, schlier and pellets of quartz, scarcely of carbonates. Locally is present some thin intercalations of gray quartzite, without some impregnation of ore minerales. Locally is present garnet (little grains of bright pink colour), which has big acumulation round 23,80 - 23,90 m. In 23,70 m, 23,85 m and 24,00 m round are present some thin intercalations (1-2 cm max. thickness) of graphitic schist (very poor impregnation - microscopic of C) Round 24,00 m is present very poor impregnation of FeS₂ mostly in the borders of the some schliers or pellets of quartz. The total colour of this rock is green-gray and gray. The schistose structure is very clear. The average gradient of this foliation is 65° round.

24,70 - 27,70

The biotitic and little bit chloritic micaschist with not much zoisite-epidotic matter, with quartz and with some grains of pink or bright pink garnet. Quartz creat a lot of very little veins or little intercalations, parallel with schistosity and creat together with quartzite some lenticles or positions (1-5 cm thickness max.) In this rock are present locally only some very little irregular intercalations of graphitic schist (max. 1 mm thickness). The schistose structure is clear. Locally is this rock stricken by a folding, mostly the recumbent folding (cm amplitude). The mineralisation of sulphides isn't present mostly. The total colour of this rock is green-gray and little bit dark green-gray. The average gradient of this foliation is 50°-55° round.

27,70 - 30,30

The serie of gray or bright gray sericitic and chloritic quartzite with a lot of very small micas of biotite and with some little and thin intercalations of chloritic, sericitic and biotitic micaschist. The some mineralisation of sulphides or of Fe₃O₄ isn't present mostly. The schistose structure is very clear. The average gradient of this foliation is 55°-60° round. Between 30,10 - 30,25 m is present position of white quartz without some mineralisation.

30,30 - 34,60

The motley serie of the biotitic, chloritic amphibolitic greenschist, with sericite, aktinolite and some not much zoisit-epidote and with some various intercalations like sericitic, chloritic and biotitic micaschist. Quartz creat the main fundament minerale of this rock and creat a lot of little veins or little intercalations or schliers and pellets. The schistose structure is very clear. The total colour of this rock is green-gray or gray-green. The average gradient of this foliation is 60° round. Between 32,00 - 34,10 m is present position of the same rock, but with more big micas of biotite and with much little grains of pink or bright garnet

(1-2 mm in average - size). The some mineralisation of sulphides or of Fe_3O_4 isn't present mostly.

34,60 - 44,15

The tender-grained and tiny-grained amphibolitic greenstone with zoisite-epidote and not much (scarce) chlorite and with a lot of very little veins, very little intercalations, schliers and pellets too of quartz, rare of carbonates. Some very small spots, pellets creat except quartz, carbonates or albite (?). The some impregnation of the ore minerales isn't present mostly. The schistose structure is rather clear. The total colour of this rock is green or gray-green. Between 35,90 - 36,10 m is some tectonic breccic with pellets and schliers of quartz, with some fragments of gray quartzite, of micaschist and with some irregular veins or pellets of carbonates. The average gradient of this foliation is 55° and 60° round, but locally 70° and 65° round. In 38,30 - 38,35 m is position of white quartz. Between 42,00 - 42,15 m and between 43,75 - 43,85 m are present some very motley positions, in which are present chloritic green-schist, quartzite, quartz, tiny-grained amphibolitic greenstone and some poor impregnation of FeS , (pyrrhotine) mostly but with some grains of FeS_2 too.

44,15 - 46,10

The chloritic and sericitic micaschist with a lot of little veins or little intercalations or schliers of quartz, which are parallel with the basement foliation of this rock. Some small biotite micas are present too, but rather scarce only. The schistose structure is very clear. Some impregnation of the ore minerales isn't present mostly. The total colour of this rock is green-gray and bright green-gray. The average gradient of this foliation is 55° - 60° round.

46,10 - 48,20

The chloritic and sericitic micaschist as well as in 44,15 - 46,10 m, but more strongly quartzzy and with more clear some the recumbent folding. The average gradient of this foliation is 60° round.

48,20 - 50,10

The biotitic and chloritic-sericitic micaschist, with some little intercalations, little veins or schliers of quartz. The schistose structure is very clear. The some impregnation of sulphides, isn't present, but some very poor impregnation (microscopic mostly) of Fe_3O_4 is present. Some little grains of Fe_3O_4 are 1 mm in average size. The total colour of this rock is little bit dark green-gray. The average gradient of this foliation is 60° round.

50,10 - 51,15

The chloritic, sericitic and biotitic micaschist as well as in 46,10 - 48,20 m, but with more biotite and with little bit phacoidal schistose structure locally. The average gradient of this foliation is 55° - 60° round.

51,15 - 54,07

The tender-grained and tiny-grained amphibolitic greenstone, with zoisite-epidote, not much chlorite, with a lot of very little veins or very little intercalations or schliers and pellets of quartz and scarce only of carbonates. The schistosity and the schistose structure is very clear. The impregnation of sulphides isn't present mostly, but some very poor impregnation of very small grains of Fe_3O_4 is clear and more clear from 51,80 m to 54,07 m. The total colour of this rock is green or gray-green. The average gradient of this foliation is 70° and mostlu 75° round. Between 52,40 - 52,60 m is present some motley serie of the medium-grained amphibolitic greenstone as well as in 0,00 - 2,80 m with a lot of intercalations of quartzite and quartz, with some very poor impregnation of FeS_2 and FeS , exactly between 52,50 - 52,55 m this one little bit more strongly.

This borehole no. 78 was finished at 54,07 m.

(M. Motys).

78.

